

# CFT SWATCHBOOK



Version 8.274





## Introduction

CFT has two distinctively different forms of production methods:

- ◀ Standardized Testmaterials
- ◀ Circular Stains

These groups are also separated in our documentation. We firmly believe that there is need for both these types of testmaterials in the industry. Both have their own advantages and disadvantages.

Standardized Testmaterials are more cost effective, present less variability and are usually available from stock. Circular Stains will appear more consumer realistic. Therefore, they are more applied in claim support or marketing activities for instance. Another advantage is that it is possible to produce only a small batch at a time, or even a lot of different stains in a short period of time.

The book in front of you is the Swatchbook. In this book you can find our entire range of Standardized Testmaterials. We present you this book to inform you on the different aspects of the Standardized Testmaterials. This can be a useful tool to help you select the stains that are most suitable for your research.

The Swatchbook contains the following parts: a description how to use this Swatchbook, an index of our Standardized Testmaterials, product sheets with a full description of our Standardized Testmaterials, an application legend and an index of our Standardized Testmaterials in alphabetical order.

Useful facts about our Standardized Testmaterials:

- ◀ At least usable up to a half year after delivery, as labelled on the package.
- ◀ We can die cut the fabrics in almost any size.
- ◀ Customized soiling available on request.

Feel free to contact us if you have any remaining questions.

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## How to use this Swatchbook?

The picture below is an example of a product sheet of one of our Standardized Testmaterials.

The other pictures show a breakdown of this description.

C-01

Mineral oil, with carbon black

Suitable for testing general detergency. Due to high level of pigment also suitable for machine agitation testing.

Extra: On mercerized cotton CN-2m

Order code:	Substrate:	Width:	Yu:
C-01	Cotton (CN-2m)	90 cm	
KC-01	Knitted Cotton	35 cm	94,5
PC-01	Polyester/Cotton	90 cm	87,8
P-01	Polyester	90 cm	

Order code:	Substrate:	Width:	Yu:
PA-01	PolyAcryl	45 cm	89,3
S-01	Silk	45 cm	83,9
W-01	Wool	45 cm	67,2
N-01	Nylon	45 cm	87,8

**C-01**

Discriminative Power<sup>2</sup>: **6,4**

Reproducibility Ratio: **8,7**

Reliability Ratio: **8,3**

Dynamic Range: **21,4**

**KC-01**

Discriminative Power<sup>2</sup>: **5,4**

Reproducibility Ratio: **7,6**

Reliability Ratio: **8,1**

Dynamic Range: **29,5**

### C-01

The CFT-code of the soil (on woven cotton).

Mineral oil, with carbon black

Soil name.



Example picture of the type of soil.

A stain made from apple concentrate, which is an important component of a lot of fruit drinks, syrup and related products.

Description of the type of soil.



A picture of the Standardized Testmaterial on woven cotton.



Application for the soil. You can find the application legend in the back of this Swatchbook. Please note that other applications could well be possible.

Order code:	Substrate:	Yu:
C-H001	CN-11: Woven Cotton (w3x)	90,9
KC-H001	CN-42: Knitted Cotton (w3x)	94,1

Table with the order codes of this stain on different substrates. Also shows the Yu (Y-unsoiled) value of the different substrates.

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Discriminative Power<sup>2</sup>

**Discriminative Power<sup>2</sup> Index (0-10):**

$$\sqrt{\sum_{i=1}^{n-1} \sum_{j=i+1}^n (1-T_{(\mu_i=\mu_j)}) * ABS(\mu_i-\mu_j)}$$

**C**

End of 2013 CFT developed a new and better way to calculate the Discriminative Power of a Testmaterial. We have called this Discriminative Power<sup>2</sup> (DP<sup>2</sup>). This is a calculation to quantify the Discriminative Power. It is based on the sum of the significance (Student T-Test) of all different results (in ΔY) times the size of this difference. The absolute value is scaled on a ratio from 0 to 10. Average DP<sup>2</sup> is 5.9.

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Reproducibility Ratio

**Reproducibility Ratio (0-10): Index: 1 - CoV SD(Ys)/Avg(Ys)**

This Coefficient of Variance indicates the consistency of the soiled Y-values within a batch, scaled on a ratio from 0 to 10.

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Reliability Ratio

**Reliability Ratio (0-10): Index: 1 - CoV SD(ΔY)/Avg(Yw)**

The Coefficient of Variance of SD of the repetitions in ΔY over the average cleaning levels (Avg(Yw)) indicates the consistency of results between repetitions, scaled on a ratio from 0 to 10.

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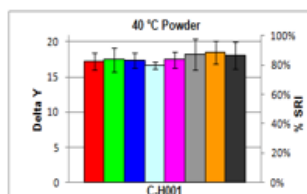
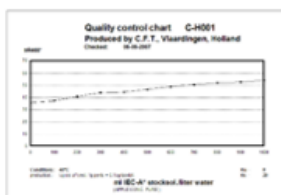
Dynamic Range

**Dynamic Range: Max SRI – Min SRI**

The difference between the best cleaning detergent SRI and the worst cleaning detergent SRI sets the range in which all results will occur. This is an absolute difference.

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Every batch of Standardized Testmaterials undergoes a strict quality control, for instance a dosage response test. All results for the latest batches are published online. This book only contains the QC-graphs and other details of the two most used substrates: woven cotton and knitted cotton. These graphs show the possible difference between the two substrates.



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Graphical results of a Detergent Comparison study, a standard procedure during all our R&D work. All results are given in delta Y on the left Y-axis and in % SRI on the right Y-axis. The colour bars represent different detergents. The full coloured bars are powder detergents and the bubble filled bars represent liquid detergents. The level of Standard Deviation between the repetitions is given as standard error bars. The results are shown for 40°C for both woven and knitted cotton.

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<b>C-02</b>	Olive oil with carbon black	9	<b>C-S-115</b>	Bil(blue)berry juice, not aged	32
<b>C-03</b>	Chocolate milk with carbon black	10	<b>C-S-16</b>	Lipstick, pink	33
<b>C-04</b>	Olive oil with chlorophyll	10	<b>C-S-116</b>	Lipstick, diluted, pink	33
<b>C-05</b>	Blood, Milk, Ink (BMI)	11	<b>C-S-216</b>	Lipstick, diluted, red	34
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<b>C-BC-06</b>	Strawberry for bleach	20	<b>C-S-127</b>	Potato starch, coloured, aged	42
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C-S-59	Asian food stain	63	C-S-98	Sebum JIS C9606	85
C-S-60	Spaghetti sauce with beef	63	C-S-99	Keratin	85
C-S-61	Beef fat, coloured with Sudan red	64	C-S-100	Chocolate rice pudding	86
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C-S-62	Lard, coloured with Sudan red	65	C-S-406	Balsamic dressing	87
C-S-62B	Lard, coloured with violet dye	65	C-S-428	Wild rice	87
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C-S-77B	Baby food banana/strawberry	73			
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## AS-Series

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The AS-Series' products are the 13 products which CFT started their business with in 1989. These testmaterials can be categorized as 'technical' testmaterials. They are not as consumer realistic as the CS Series, but designed to show well discriminating and reliable results. The article coding was changed ten years later after CFT developed a large number of other testmaterials in the CS-Series. For example, AS-01 is now known as C-01. The first part of this new product codes refers to the substrate fabric (e.g. C for cotton).



# C-01

## Mineral oil with carbon black



Suitable for testing general detergency. Due to high level of pigment also suitable for machine agitation testing.

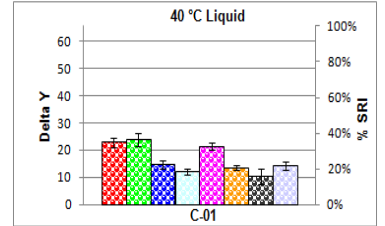
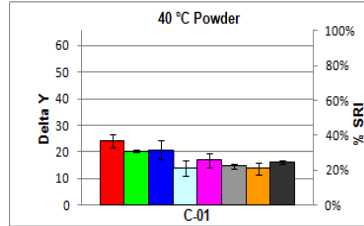
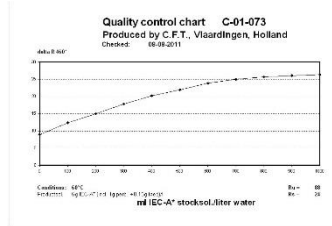
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-01	Cotton (CN-17)	90 cm	87,7
KC-01	Knitted Cotton (CN-42)	35 cm	94,5
PC-01	Polyester/Cotton (PCN-01)	90 cm	87,8
P-01	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-01	PolyAcryl (PAN-01)	45 cm	89,3
S-01	Silk (T-601)	45 cm	83,9
W-01	Wool (T-541)	45 cm	67,2
N-01	Nylon (T-365)	45 cm	87,4

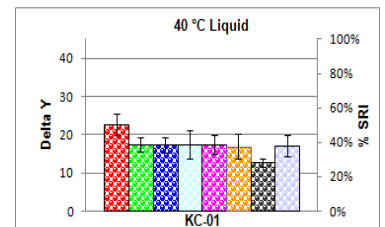
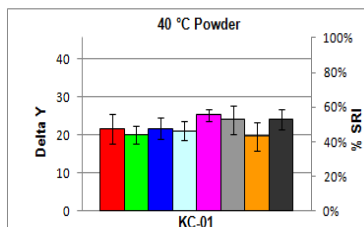
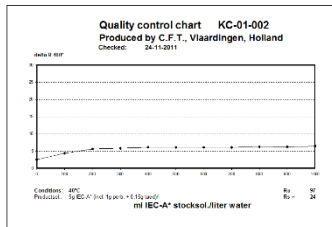
### C-01

Discriminative Power<sup>2</sup>: **6,4**  
 Reproducibility Ratio: **8,7**  
 Reliability Ratio: **8,3**  
 Dynamic Range: **21,4**



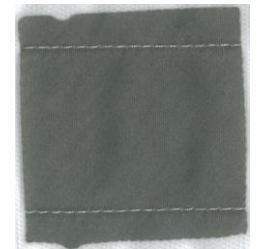
### KC-01

Discriminative Power<sup>2</sup>: **5,4**  
 Reproducibility Ratio: **7,6**  
 Reliability Ratio: **8,1**  
 Dynamic Range: **29,5**



# C-02

## Olive oil with carbon black



Suitable for testing general detergency. Due to high level of pigment also suitable for machine agitation testing.

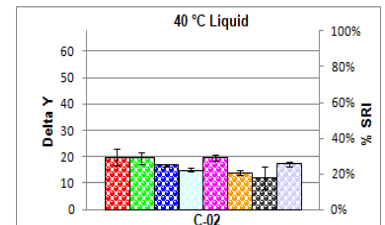
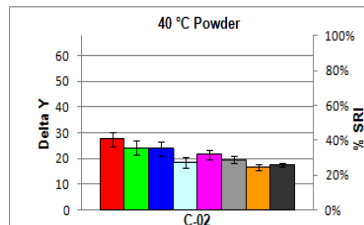
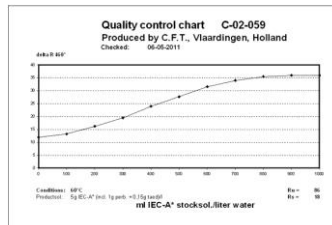
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-02	Cotton (T-400)	90 cm	88,9
KC-02	Knitted Cotton (CN-42)	35 cm	94,5
PC-02	Polyester/Cotton (PCN-01)	90 cm	87,8
P-02	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-02	PolyAcryl (PAN-01)	45 cm	89,3
S-02	Silk (T-601)	45 cm	83,9
W-02	Wool (T-541)	45 cm	67,2
N-02	Nylon (T-365)	45 cm	87,4

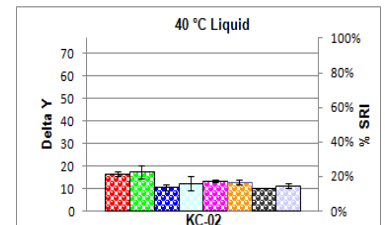
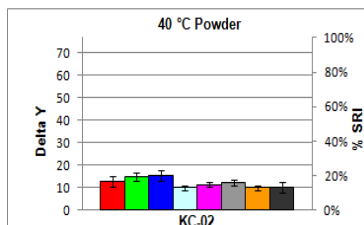
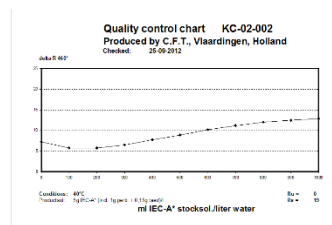
### C-02

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,2**  
 Dynamic Range: **22,9**

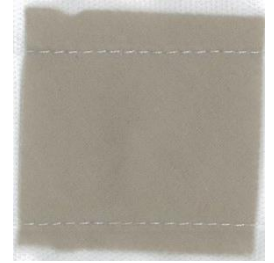


### KC-02

Discriminative Power<sup>2</sup>: **5,8**  
 Reproducibility Ratio: **7,2**  
 Reliability Ratio: **7,8**  
 Dynamic Range: **10,7**



# C-03 Chocolate milk with carbon black



Measures overall detergency, including protease activity. Suitable for low temperatures testing.

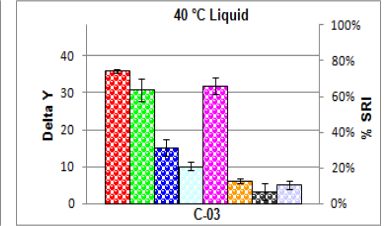
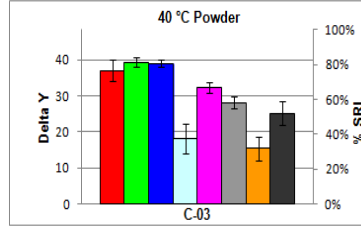
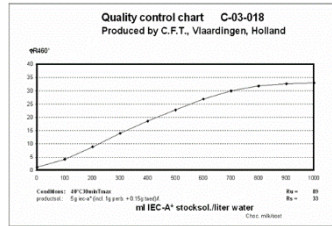
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-03	Cotton (CN-11)	90 cm	89,1
KC-03	Knitted Cotton (CN-42)	35 cm	94,5
PC-03	Polyester/Cotton (PCN-01)	90 cm	87,8
P-03	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-03	PolyAcryl (PAN-01)	45 cm	89,3
S-03	Silk (T-601)	45 cm	83,9
W-03	Wool (T-541)	45 cm	67,2
N-03	Nylon (T-365)	45 cm	87,4

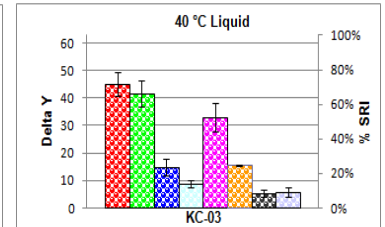
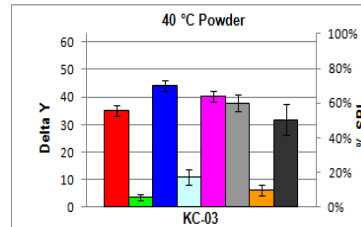
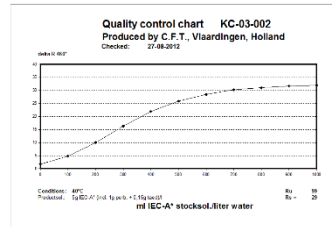
## C-03

Discriminative Power<sup>2</sup>: **8,1**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **75,0**

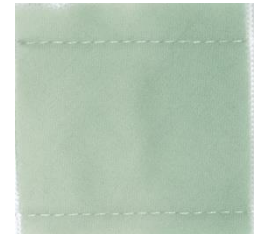


## KC-03

Discriminative Power<sup>2</sup>: **8,8**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **7,3**  
 Dynamic Range: **67,0**



# C-04 Olive oil with chlorophyll



Measures oily soil removal. This product must always be stored in the dark as chlorophyll is sensitive to light.

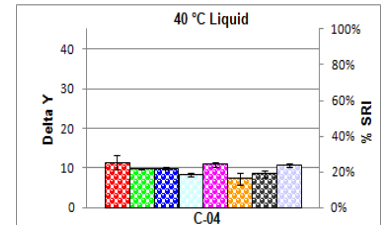
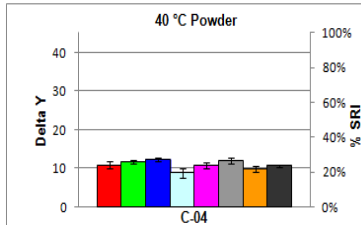
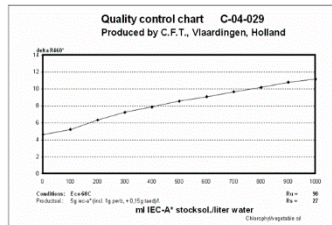
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-04	Cotton (CN-11)	90 cm	89,1
KC-04	Knitted Cotton (CN-42)	35 cm	94,5
PC-04	Polyester/Cotton (PCN-01)	90 cm	87,8
P-04	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-04	PolyAcryl (PAN-01)	45 cm	89,3
S-04	Silk (T-601)	45 cm	83,9
W-04	Wool (T-541)	45 cm	67,2
N-04	Nylon (T-365)	45 cm	87,4

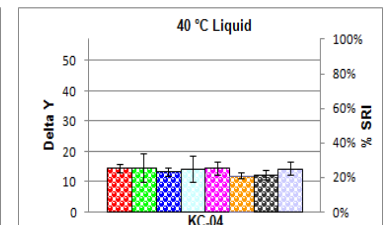
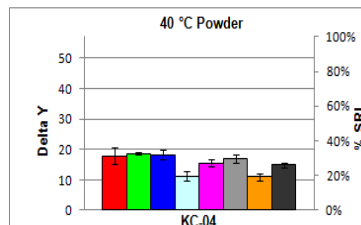
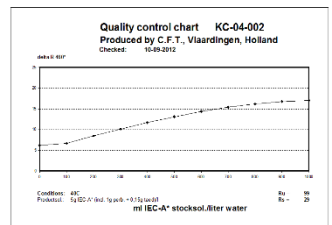
## C-04

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **13,9**



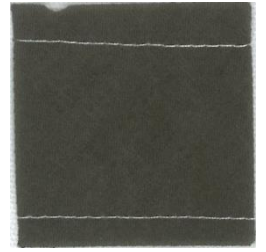
## KC-04

Discriminative Power<sup>2</sup>: **5,4**  
 Reproducibility Ratio: **7,6**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **16,6**



# C-05

## Blood, Milk, Ink (BMI)



Suitable to test the performance of proteolytic enzymes.

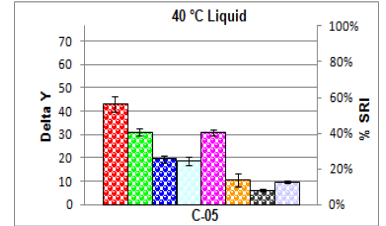
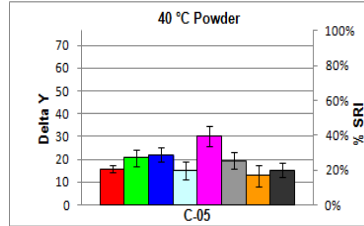
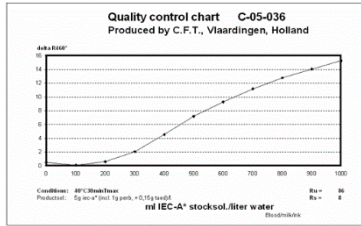
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-05	Cotton (CN-11)	90 cm	89,1
KC-05	Knitted Cotton (CN-42)	35 cm	94,5
PC-05	Polyester/Cotton (PCN-01)	90 cm	87,8
P-05	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-05	PolyAcryl (PAN-01)	45 cm	89,3
S-05	Silk (T-601)	45 cm	83,9
W-05	Wool (T-541)	45 cm	67,2
N-05	Nylon (T-365)	45 cm	87,4

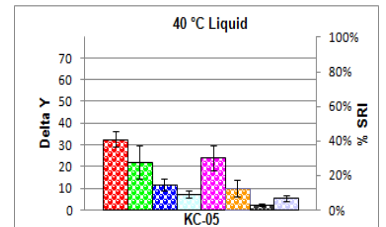
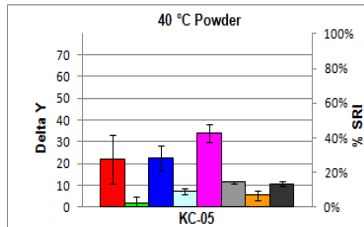
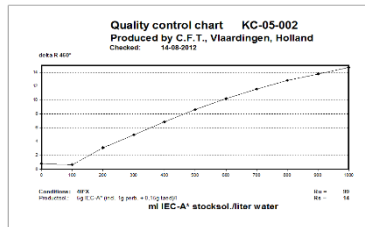
### C-05

Discriminative Power<sup>2</sup>: **7,5**  
 Reproducibility Ratio: **8,7**  
 Reliability Ratio: **6,7**  
 Dynamic Range: **48,3**



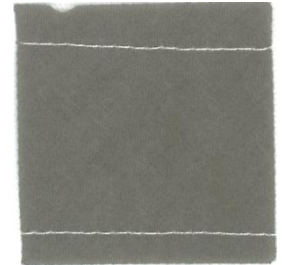
### KC-05

Discriminative Power<sup>2</sup>: **7,5**  
 Reproducibility Ratio: **7,7**  
 Reliability Ratio: **5,1**  
 Dynamic Range: **40,4**



# C-105

## Blood, Milk, less Ink



Same as C-05, but with less ink, so lighter. This way the carbon black level will not cause any contamination risks. Suitable to test the performance of proteolytic enzymes.

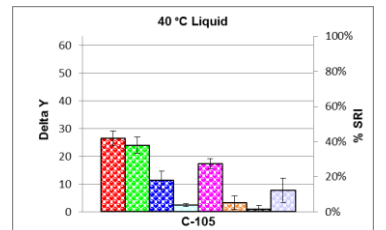
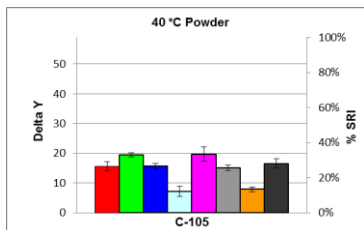
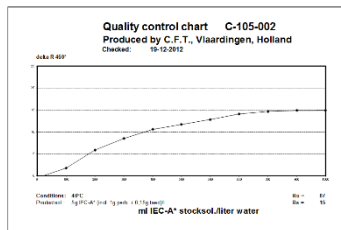
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-105	Cotton (CN-11)	90 cm	89,1
KC-105	Knitted Cotton (CN-42)	35 cm	94,5
PC-105	Polyester/Cotton (PCN-01)	90 cm	87,8
P-105	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-105	PolyAcryl (PAN-01)	45 cm	89,3
S-105	Silk (T-601)	45 cm	83,9
W-105	Wool (T-541)	45 cm	67,2
N-105	Nylon (T-365)	45 cm	87,4

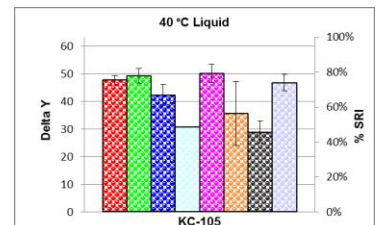
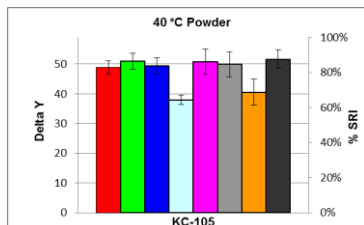
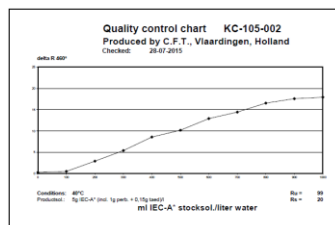
### C-105

Discriminative Power<sup>2</sup>: **7,0**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **7,7**  
 Dynamic Range: **37,1**



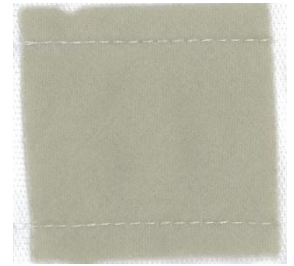
### KC-105

Discriminative Power<sup>2</sup>: **7,1**  
 Reproducibility Ratio: **8,4**  
 Reliability Ratio: **8,0**  
 Dynamic Range: **38,6**



# C-06

## Pigment with oil, for industrial laundry



Measures general detergency. Also reacts to builder concentration, water hardness and product concentration. Specially developed for industrial laundry.

Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-06	Cotton (CN-11)	90 cm	89,1

Order code:	Substrate:	Width:	Yu:

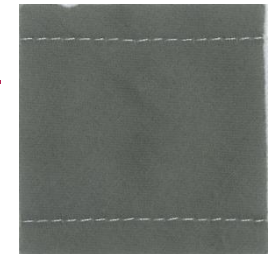
### C-06

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**

Graphs unavailable

# C-07

## Motor oil with carbon black



A general detergency type of testmaterial. Fabric with low pigment concentration. Especially suitable for measuring surfactant performance and builder action.

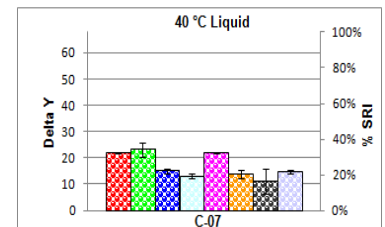
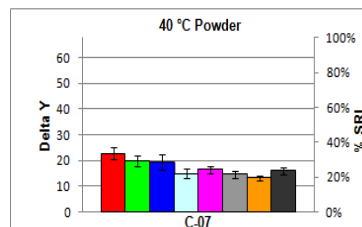
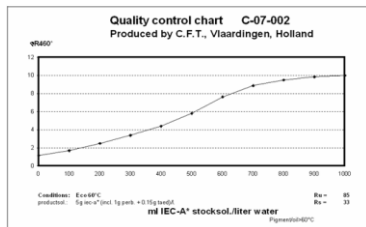
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-07	Cotton (CN-17)	90 cm	87,7
KC-07	Knitted Cotton (CN-42)	35 cm	94,5
PC-07	Polyester/Cotton (PCN-01)	90 cm	87,8
P-07	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-07	PolyAcryl (PAN-01)	45 cm	89,3
S-07	Silk (T-601)	45 cm	83,9
W-07	Wool (T-541)	45 cm	67,2
N-07	Nylon (T-365)	45 cm	87,4

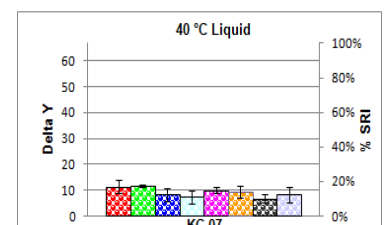
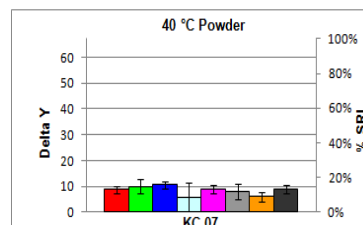
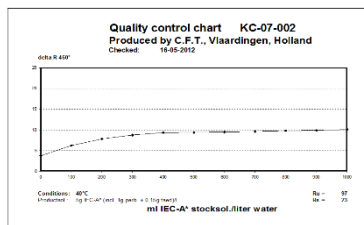
### C-07

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **8,2**  
 Dynamic Range: **19,3**



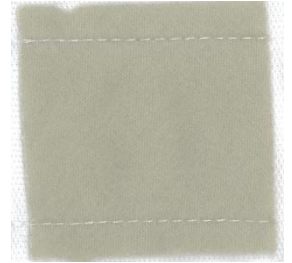
### KC-07

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **7,5**  
 Reliability Ratio: **7,6**  
 Dynamic Range: **9,5**



# C-08

## Pigment with oil (above 60° C)



Measures general detergency. Also reacts to builder concentration, water hardness and product concentration.

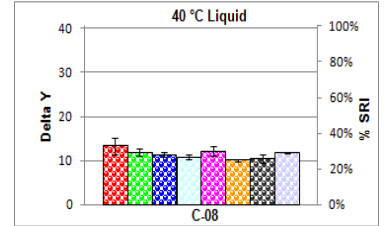
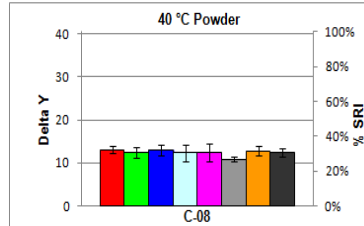
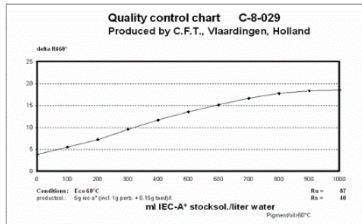
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-08	Cotton (CN-11)	45 cm	89,1
KC-08	Knitted Cotton (CN-42)	35 cm	94,5
PC-08	Polyester/Cotton (PCN-01)	45 cm	87,8
P-08	Polyester (W-30 A)	45 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-08	PolyAcryl (PAN-01)	45 cm	89,3
S-08	Silk (T-601)	45 cm	83,9
W-08	Wool (T-541)	45 cm	67,2
N-08	Nylon (T-365)	45 cm	87,4

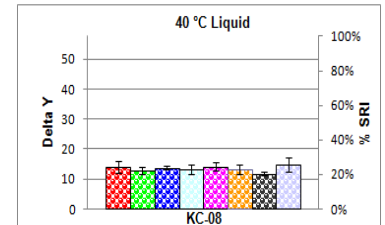
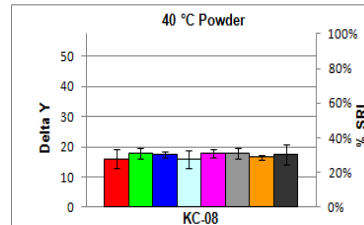
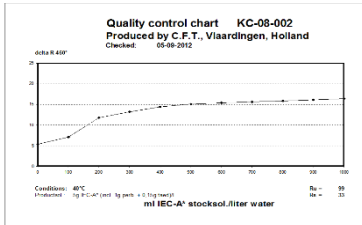
### C-08

Discriminative Power<sup>2</sup>: **4,7**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **8,4**



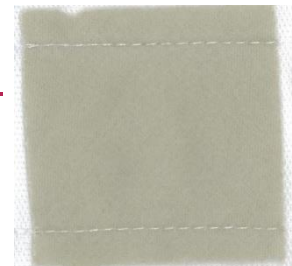
### KC-08

Discriminative Power<sup>2</sup>: **4,9**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **12,7**



# C-09

## Pigment with oil (below 60° C)



Measures general detergency. Also reacts to builder concentration, water hardness and product concentration.

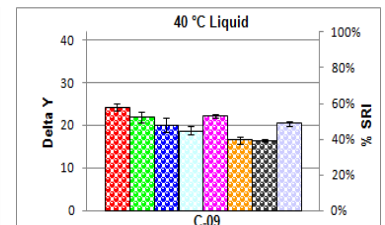
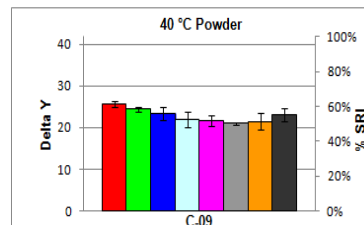
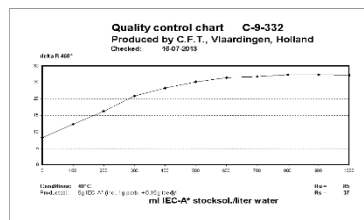
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-09	Cotton (CN-11)	90 cm	89,1
KC-09	Knitted Cotton (CN-42)	35 cm	94,5
PC-09	Polyester/Cotton (PCN-01)	90 cm	87,8
P-09	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-09	PolyAcryl (PAN-01)	45 cm	89,3
S-09	Silk (T-601)	45 cm	83,9
W-09	Wool (T-541)	45 cm	67,2
N-09	Nylon (T-365)	45 cm	87,4

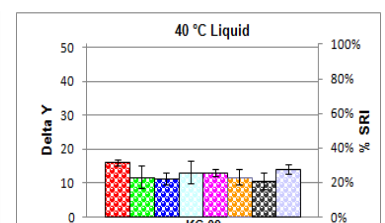
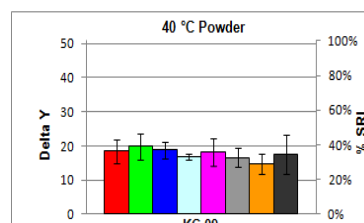
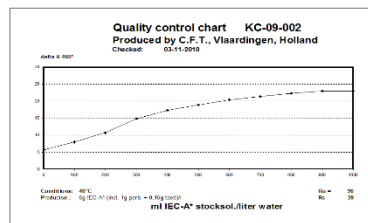
### C-09

Discriminative Power<sup>2</sup>: **5,6**  
 Reproducibility Ratio: **9,6**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **23,1**



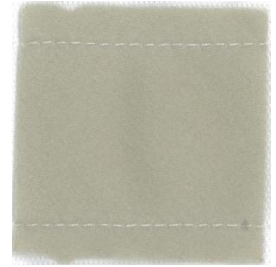
### KC-09

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **8,0**  
 Dynamic Range: **20,5**



# C-10

## Pigment, Oil, Milk (POM)



Measures the effect of proteolytic enzymes on soil removal.

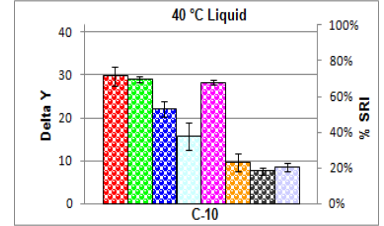
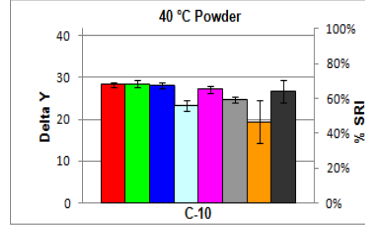
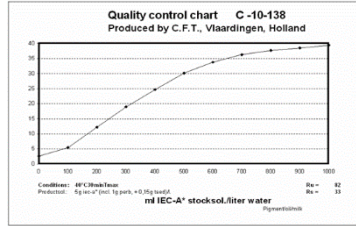
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-10	Cotton (CN-11)	90 cm	89,1
KC-10	Knitted Cotton (CN-42)	35 cm	94,5
PC-10	Polyester/Cotton (PCN-01)	90 cm	87,8
P-10	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-10	PolyAcryl (PAN-01)	45 cm	89,3
S-10	Silk (T-601)	45 cm	83,9
W-10	Wool (T-541)	45 cm	67,2
N-10	Nylon (T-365)	45 cm	87,4

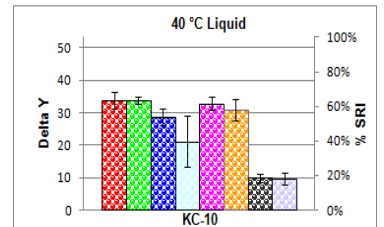
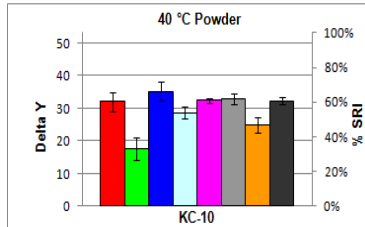
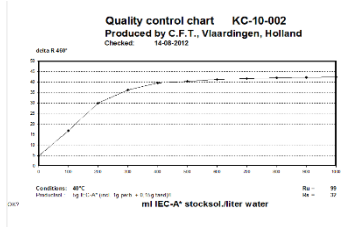
### C-10

Discriminative Power<sup>2</sup>: **7,0**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **53,8**



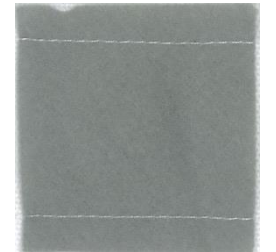
### KC-10

Discriminative Power<sup>2</sup>: **7,5**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **47,1**



# C-11

## Milk with carbon black



Measures the effect of proteolytic enzymes on soil removal.

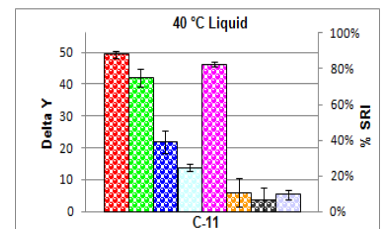
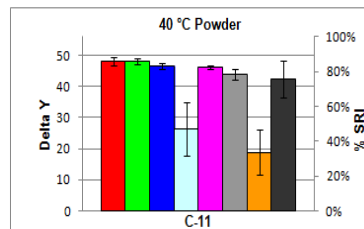
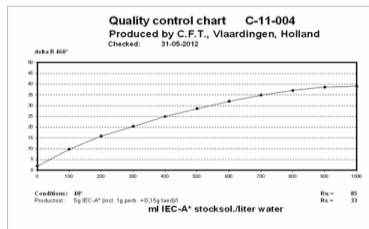
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-11	Cotton (CN-17)	90 cm	87,7
KC-11	Knitted Cotton (CN-42)	35 cm	94,5
PC-11	Polyester/Cotton (PCN-01)	90 cm	87,8
P-11	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-11	PolyAcryl (PAN-01)	45 cm	89,3
S-11	Silk (T-601)	45 cm	83,9
W-11	Wool (T-541)	45 cm	67,2
N-11	Nylon (T-365)	45 cm	87,4

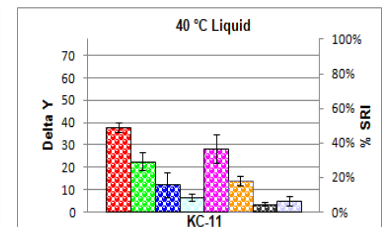
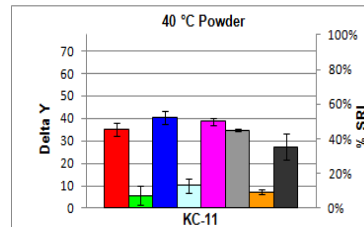
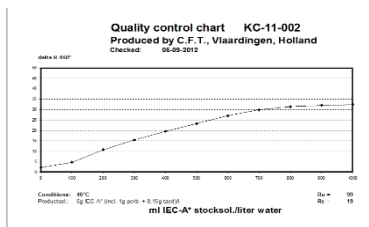
### C-11

Discriminative Power<sup>2</sup>: **8,9**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **7,8**  
 Dynamic Range: **83,8**



### KC-11

Discriminative Power<sup>2</sup>: **8,3**  
 Reproducibility Ratio: **7,1**  
 Reliability Ratio: **6,2**  
 Dynamic Range: **8,3**



# C-12

## Pigment, oil, low milk content



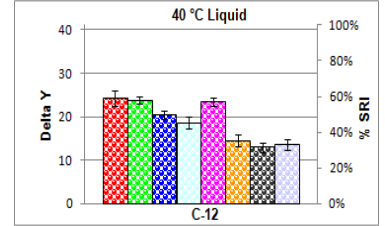
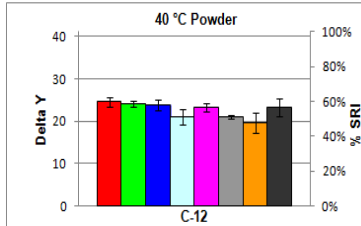
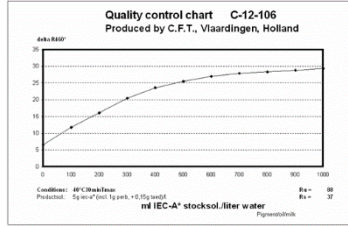
A general purpose testfabric suitable for all temperatures, designed to provide an overall picture of wash performance, including proteolytic enzyme response.

Aged at elevated temperature.

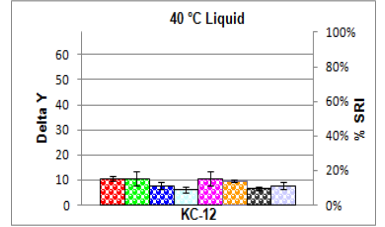
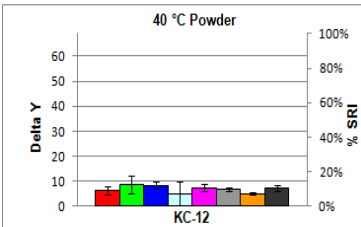
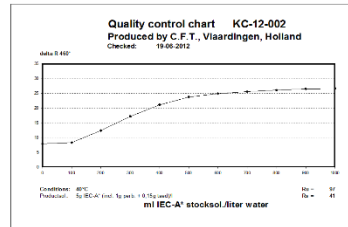
Order code:	Substrate:	Width:	Yu:
C-12	Cotton (CN-11)	45 cm	89,1
KC-12	Knitted Cotton (CN-42)	35 cm	94,5
PC-12	Polyester/Cotton (PCN-01)	45 cm	87,8
P-12	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-12	PolyAcryl (PAN-01)	45 cm	89,3
S-12	Silk (T-601)	45 cm	83,9
W-12	Wool (T-541)	45 cm	67,2
N-12	Nylon (T-365)	45 cm	87,4

**C-12**  
 Discriminative Power<sup>2</sup>: **6,1**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **30,5**

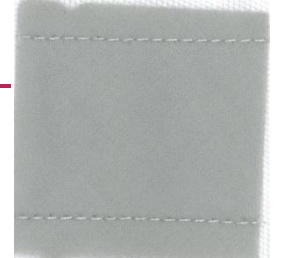


**KC-12**  
 Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **7,8**  
 Reliability Ratio: **8,2**  
 Dynamic Range: **8,5**



# C-13

## Soot with water solvable thickening agent



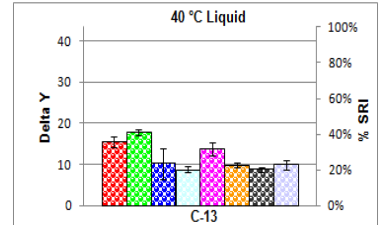
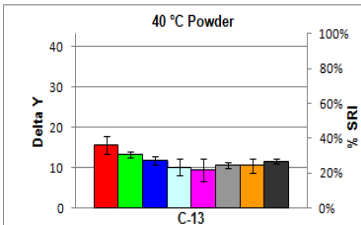
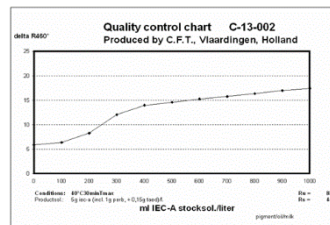
Used to study the influence of the level of agitation in washing machines on the removal of particulate matter.

Not aged at elevated temperature.

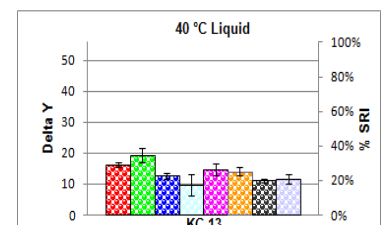
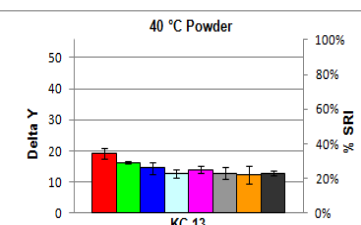
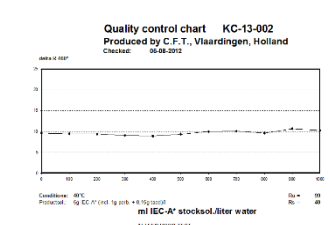
Order code:	Substrate:	Width:	Yu:
C-13	Cotton (CN-17)	90 cm	87,7
KC-13	Knitted Cotton (CN-42)	35 cm	94,5
PC-13	Polyester/Cotton (PCN-01)	90 cm	87,8
P-13	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-13	PolyAcryl (PAN-01)	45 cm	89,3
S-13	Silk (T-601)	45 cm	83,9
W-13	Wool (T-541)	45 cm	67,2
N-13	Nylon (T-365)	45 cm	87,4

**C-13**  
 Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **24,0**



**KC-13**  
 Discriminative Power<sup>2</sup>: **5,8**  
 Reproducibility Ratio: **8,8**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **20,1**



# AS-09

## Australian Standard Cotton

AUSTRALIAN  
STANDARD



Standardized Testmaterial dedicated to measure machines performance according to the AS/NZS Energy Standard. Cut in 10 x 14 cm swatches.

Aged at elevated temperature

Order code:	Substrate:	Width:	Yu:
AS-09	Cotton (CN-17)		87,7

Order code:	Substrate:	Width:	Yu:

### AS-09

- Discriminative Power<sup>2</sup>: **N/A**
- Reproducibility Ratio: **N/A**
- Reliability Ratio: **N/A**
- Dynamic Range: **N/A**

Graphs unavailable





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## BC-Series

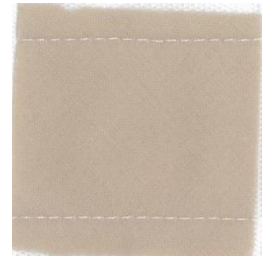
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The BC-Series' products are a special group of products. These are all especially designed to isolate the bleach performance results only.

These products have in common that they are rinsed with water after application of the soil, thus removing the easy to remove soil and leaving the hard to remove bleachable part of the soil behind.

The advantage is that all of the soil removal can be contributed to the bleach system of your detergent. It can also be explained as Consumer Realistic: the first thing a consumer would do after a stain occurs, is to try to rinse it out with water. These products are not very suitable to test liquid detergents, because of the bleach sensitivity.

# C-BC-01 Tea for bleach (medium/high temperatures)



Used to study bleaching performance in the presence or absence of precursors in washing machines.

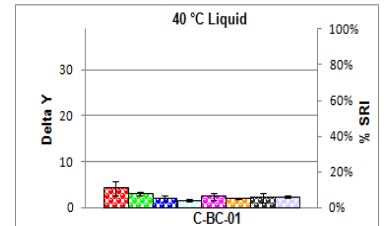
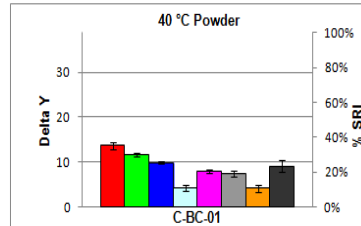
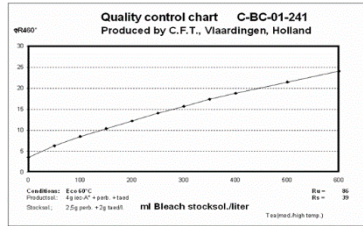
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-BC-01	Cotton (CN-17)	145 cm	87,7
KC-BC-01	Knitted Cotton (CN-42)	130 cm	94,5
PC-BC-01	Polyester/Cotton (PCN-01)	90 cm	87,8
P-BC-01	Polyester (PN-01)	145 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-BC-01	PolyAcryl (PAN-01)	90 cm	89,3
S-BC-01	Silk (T-601)	90 cm	83,9
W-BC-01	Wool (T-541)	145 cm	67,2
N-BC-01	Nylon (T-365)	90 cm	87,4

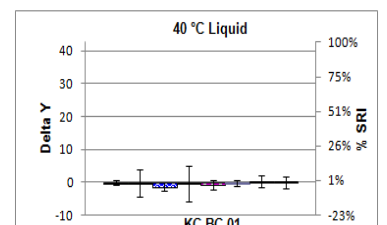
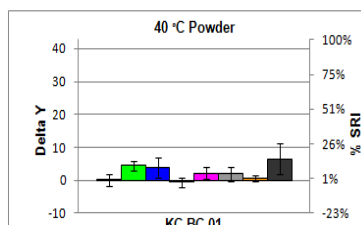
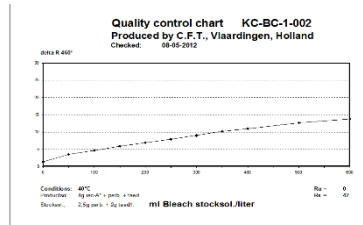
## C-BC-01

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **99,5**  
 Dynamic Range: **31,0**



## KC-BC-01

Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **8,8**  
 Reliability Ratio: **8,4**  
 Dynamic Range: **18,5**



# C-BC-02 Coffee for bleach



Especially suitable to measure the bleaching performance of a detergent of one of the components.

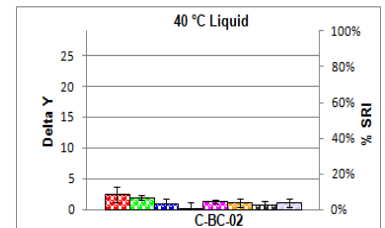
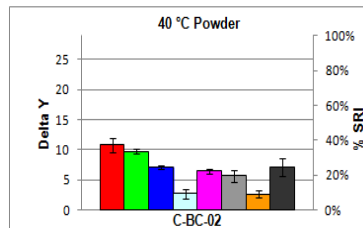
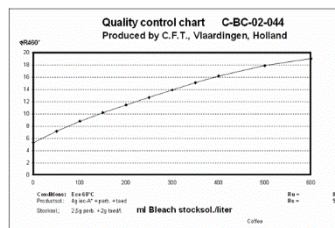
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-BC-02	Cotton (CN-17)	145 cm	87,7
KC-BC-02	Knitted Cotton (CN-42)	130 cm	94,5
PC-BC-02	Polyester/Cotton (PCN-01)	90 cm	87,8
P-BC-02	Polyester (PN-01)	145 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-BC-02	PolyAcryl (PAN-01)	90 cm	89,3
S-BC-02	Silk (T-601)	90 cm	83,9
W-BC-02	Wool (T-541)	145 cm	67,2
N-BC-02	Nylon (T-365)	90 cm	87,4

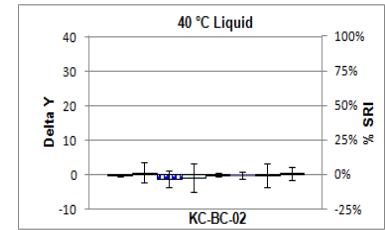
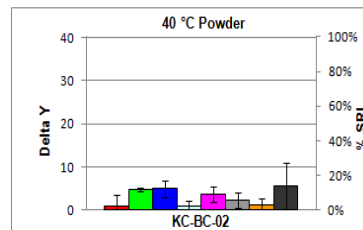
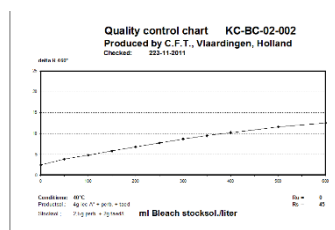
## C-BC-02

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **36,8**



## KC-BC-02

Discriminative Power<sup>2</sup>: **5,1**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **8,1**  
 Dynamic Range: **17,9**



# C-BC-03 Tea for bleach (low temperatures)



Used to study bleaching performance in the presence or absence of precursors in washing machines.

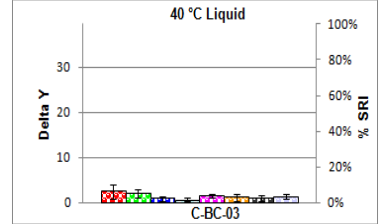
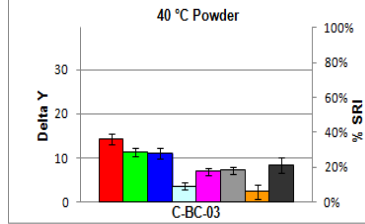
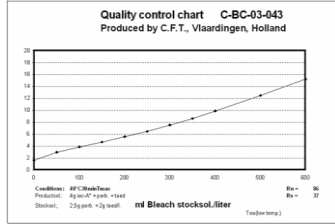
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-BC-03	Cotton (CN-17)	145 cm	87,7
KC-BC-03	Knitted Cotton (CN-42)	130 cm	94,5
PC-BC-03	Polyester/Cotton (PCN-01)	90 cm	87,8
P-BC-03	Polyester (PN-01)	145 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-BC-03	PolyAcryl (PAN-01)	90 cm	89,3
S-BC-03	Silk (T-601)	90 cm	83,9
W-BC-03	Wool (T-541)	145 cm	67,2
N-BC-03	Nylon (T-365)	90 cm	87,4

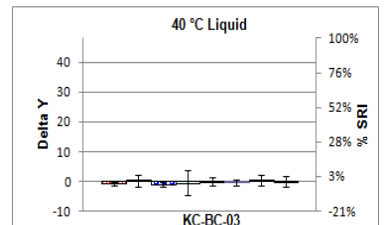
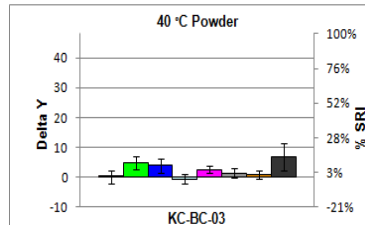
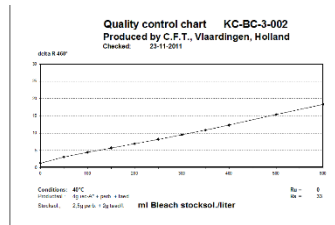
## C-BC-03

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **34,2**



## KC-BC-03

Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **8,3**  
 Reliability Ratio: **8,2**  
 Dynamic Range: **16,4**



# C-BC-04 Curry for bleach



A very stubborn bleach-sensitive stain, to be used for intensive washes and multi-wash tests.

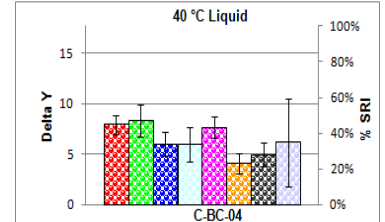
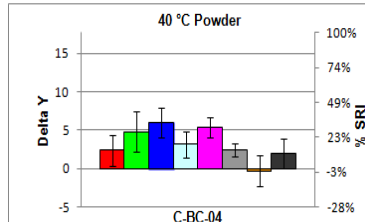
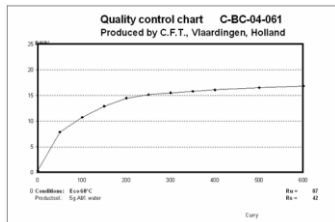
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-BC-04	Cotton (CN-11)	145 cm	89,1
KC-BC-04	Knitted Cotton (CN-42)	130 cm	94,5
PC-BC-04	Polyester/Cotton (PCN-01)	90 cm	87,8
P-BC-04	Polyester (PN-01)	145 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-BC-04	PolyAcryl (PAN-01)	90 cm	89,3
S-BC-04	Silk (T-601)	90 cm	83,9
W-BC-04	Wool (T-541)	145 cm	67,2
N-BC-04	Nylon (T-365)	90 cm	87,4

## C-BC-04

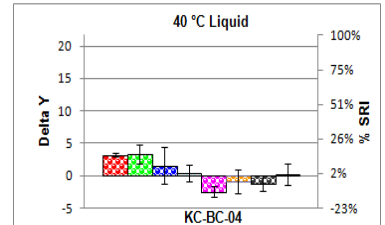
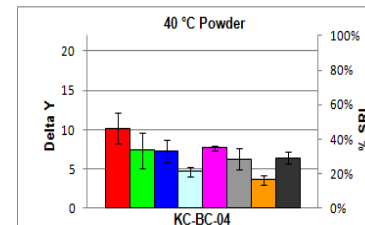
Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **8,3**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **48,7**



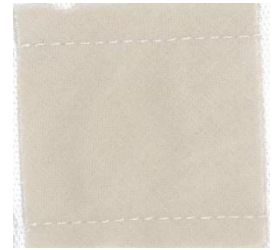
## KC-BC-04

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **57,9**

Graph unavailable



# C-BC-05 Red beet for bleach



A very stubborn bleach-sensitive stain, which has a high concentration of the greyish colour that remains after washing red beet stains from fabrics.

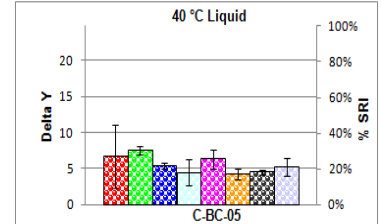
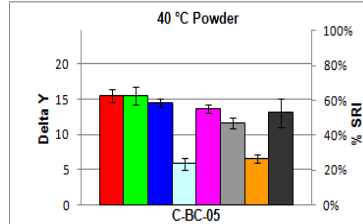
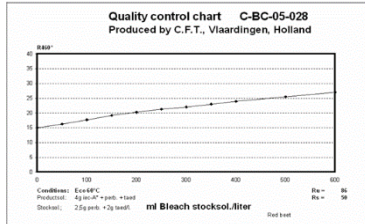
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-BC-05	Cotton (CN-17)	90 cm	87,7
KC-BC-05	Knitted Cotton (CN-42)	35 cm	94,5
PC-BC-05	Polyester/Cotton (PCN-01)	90 cm	87,8
P-BC-05	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-BC-05	PolyAcryl (PAN-01)	90 cm	89,3
S-BC-05	Silk (T-601)	90 cm	83,9
W-BC-05	Wool (T-541)	45 cm	67,2
N-BC-05	Nylon (T-365)	90 cm	87,4

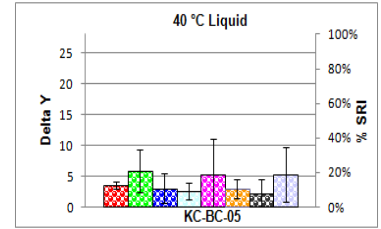
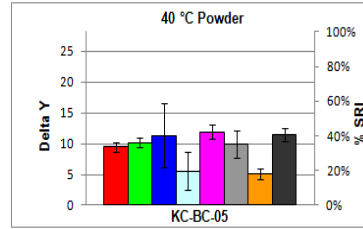
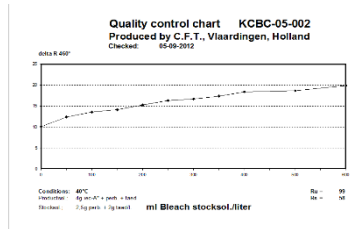
## C-BC-05

Discriminative Power<sup>2</sup>: **5,6**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **48,9**



## KC-BC-05

Discriminative Power<sup>2</sup>: **5,4**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **8,4**  
 Dynamic Range: **44,8**



# C-BC-06 Strawberry for bleach



A very realistic difficult to remove bleach-sensitive stain.

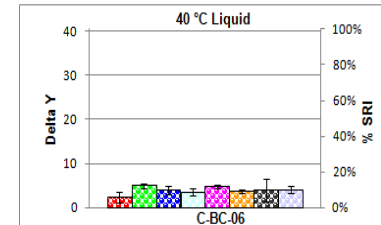
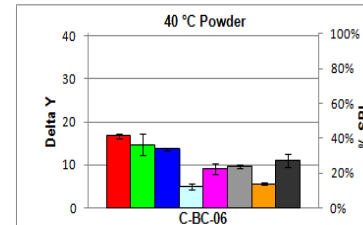
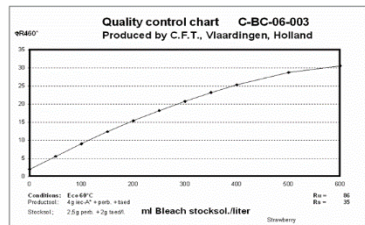
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-BC-06	Cotton (CN-17)	145 cm	87,7
KC-BC-06	Knitted Cotton (CN-42)	130 cm	94,5
PC-BC-06	Polyester/Cotton (PCN-01)	90 cm	87,8
P-BC-06	Polyester (PN-01)	145 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-BC-06	PolyAcryl (PAN-01)	90 cm	89,3
S-BC-06	Silk (T-601)	90 cm	83,9
W-BC-06	Wool (T-541)	45 cm	67,2
N-BC-06	Nylon (T-365)	90 cm	87,4

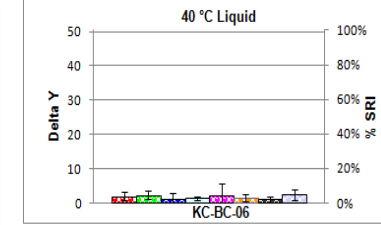
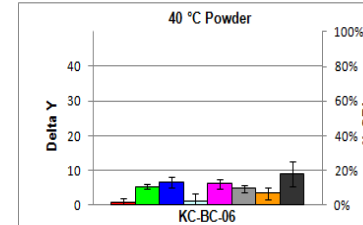
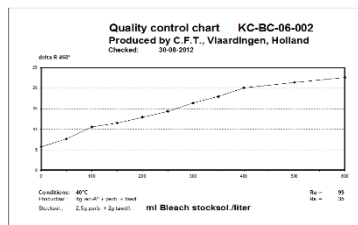
## C-BC-06

Discriminative Power<sup>2</sup>: **5,4**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **35,4**



## KC-BC-06

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **8,8**  
 Reliability Ratio: **8,1**  
 Dynamic Range: **21,5**





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## CS-Series

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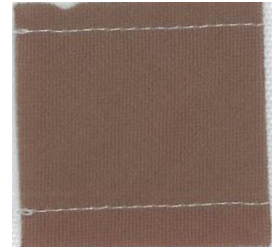
The CS-Series' or S-Series' products are all developed by CFT. The CS originally stood for Consumer Soils. These are soils with which the consumer would be confronted in reality.

To control reproducibility of these testmaterials we purchase the soil ingredients in very big quantities at a time, or we produce our own recipe (e.g. chocolate pudding), based on the average of ingredients used in various brands.

After the introduction of our soils on different substrate fabrics the 'C' in the article code started to refer to 'Cotton' and is replaced depending on the type of fabric. The 'S' still remains to indicate that these testmaterials belong to the 'S'-Series.

# C-S-01

Blood, aged



Demonstrates the burn-in effect caused by bleaching agents. Suitable for the assessment of protein removal and organic pigments.

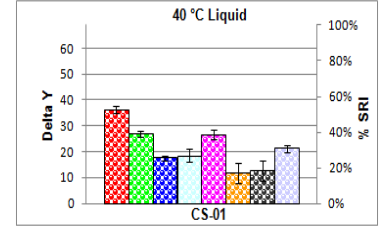
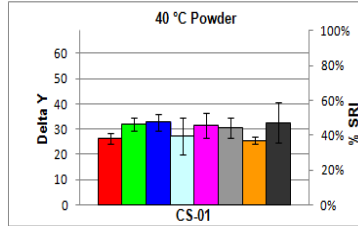
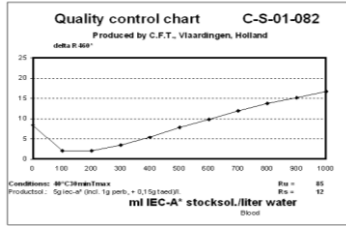
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-01	Cotton (CN-11)	90 cm	89,1
KC-S-01	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-01	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-01	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-01	PolyAcryl (PAN-01)	45 cm	89,3
S-S-01	Silk (T-601)	45 cm	83,9
W-S-01	Wool (T-541)	45 cm	67,2
N-S-01	Nylon (T-365)	45 cm	87,4

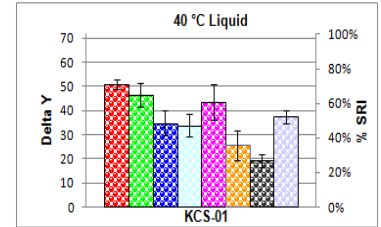
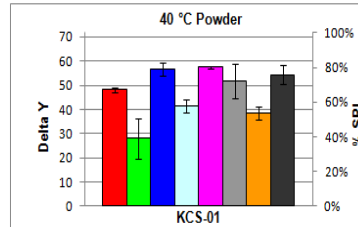
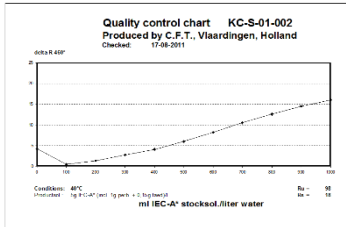
## C-S-01

Discriminative Power<sup>2</sup>: **6,4**  
 Reproducibility Ratio: **8,8**  
 Reliability Ratio: **7,1**  
 Dynamic Range: **35,5**



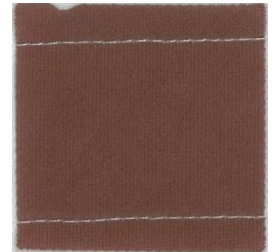
## KC-S-01

Discriminative Power<sup>2</sup>: **7,9**  
 Reproducibility Ratio: **8,2**  
 Reliability Ratio: **6,8**  
 Dynamic Range: **53,3**



# C-S-101

Blood, slightly aged



Demonstrates the burn-in effect caused by bleaching agents. Suitable for the assessment of protein removal and organic pigments.

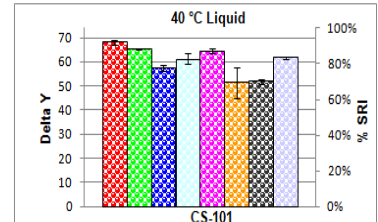
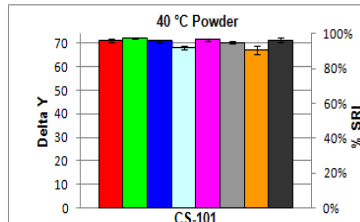
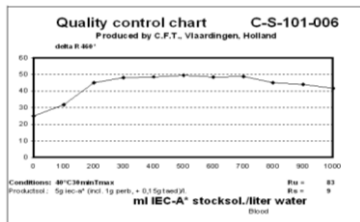
Slightly aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-101	Cotton (CN-11)	90 cm	89,1
KC-S-101	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-101	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-101	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-101	PolyAcryl (PAN-01)	45 cm	89,3
S-S-101	Silk (T-601)	45 cm	83,9
W-S-101	Wool (T-541)	45 cm	67,2
N-S-101	Nylon (T-365)	45 cm	87,4

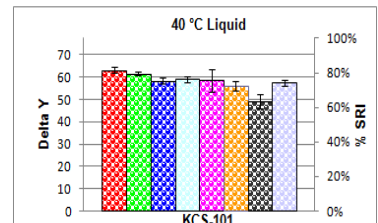
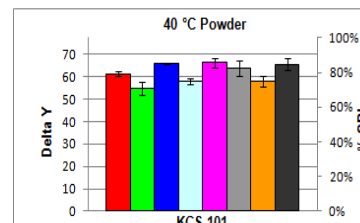
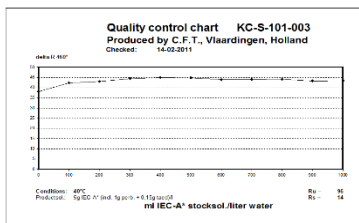
## C-S-101

Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **8,7**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **31,3**



## KC-S-101

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **7,4**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **23,1**



# C-S-02

Cocoa, aged



For measuring overall detergency, including a slight response to proteolytic enzymes.

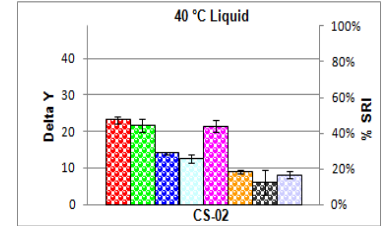
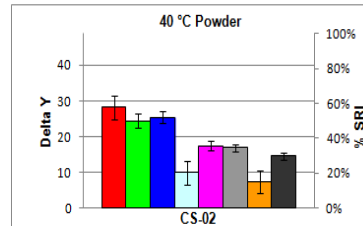
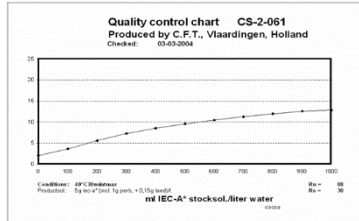
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-02	Cotton (CN-11)	90 cm	89,1
KC-S-02	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-02	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-02	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-02	PolyAcryl (PAN-01)	45 cm	89,3
S-S-02	Silk (T-601)	45 cm	83,9
W-S-02	Wool (T-541)	45 cm	67,2
N-S-02	Nylon (T-365)	45 cm	87,4

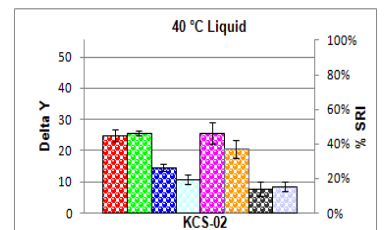
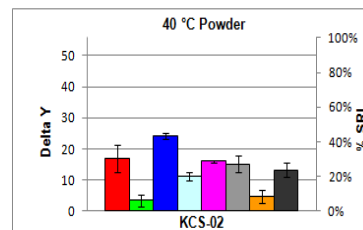
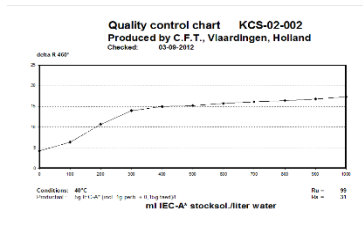
## C-S-02

Discriminative Power<sup>2</sup>: **7,2**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **45,3**



## KC-S-02

Discriminative Power<sup>2</sup>: **7,3**  
 Reproducibility Ratio: **8,2**  
 Reliability Ratio: **8,2**  
 Dynamic Range: **42,8**



# C-S-102

Cocoa



For measuring overall detergency, including a slight response to proteolytic enzymes.

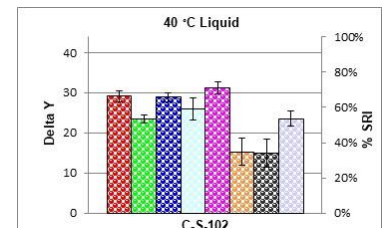
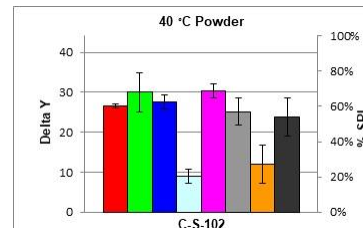
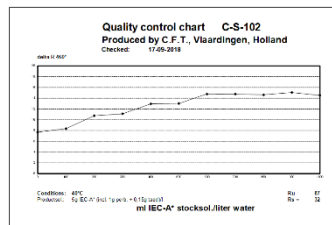
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-102	Cotton (CN-11)	90 cm	89,1
KC-S-102	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-102	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-102	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-102	PolyAcryl (PAN-01)	45 cm	89,3
S-S-102	Silk (T-601)	45 cm	83,9
W-S-102	Wool (T-541)	45 cm	67,2
N-S-102	Nylon (T-365)	45 cm	87,4

## C-S-102

Discriminative Power<sup>2</sup>: **7,1**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,6**  
 Dynamic Range: **52,5**



## KC-S-102

Discriminative Power<sup>2</sup>: **n/a**  
 Reproducibility Ratio: **n/a**  
 Reliability Ratio: **n/a**  
 Dynamic Range: **n/a**

Graphs unavailable

# C-S-03

Wine, aged



For measuring stain removal. Most of the wine is easily removed during washing without the application of bleach.

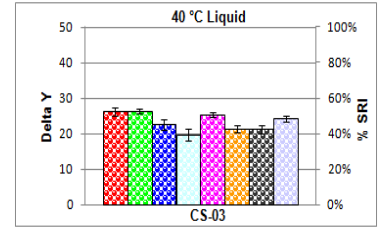
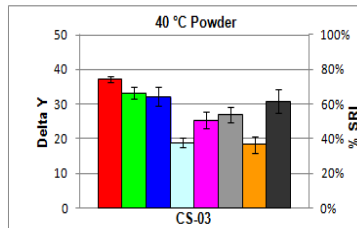
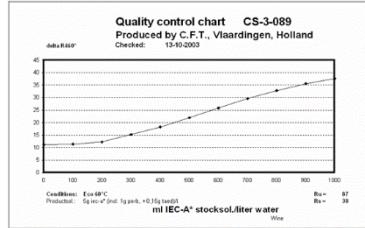
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-03	Cotton (CN-17)	90 cm	87,8
KC-S-03	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-03	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-03	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-03	PolyAcryl (PAN-01)	45 cm	89,3
S-S-03	Silk (T-601)	45 cm	83,9
W-S-03	Wool (T-541)	45 cm	67,2
N-S-03	Nylon (T-365)	45 cm	87,4

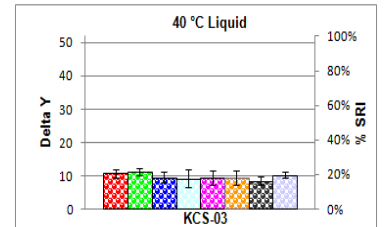
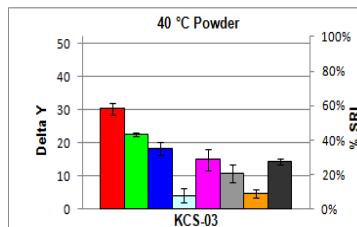
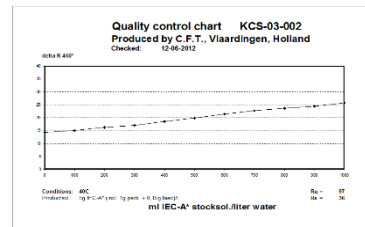
## C-S-03

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,0**  
 Dynamic Range: **44,0**



## KC-S-03

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **53,2**



# C-S-103

Wine



For measuring stain removal. Most of the wine is easily removed during washing without the application of bleach.

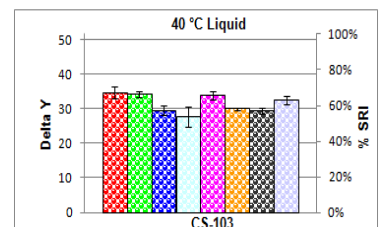
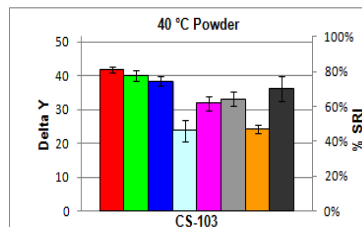
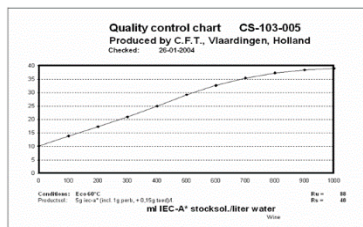
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-103	Cotton (CN-17)	90 cm	87,8
KC-S-103	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-103	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-103	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-103	PolyAcryl (PAN-01)	45 cm	89,3
S-S-103	Silk (T-601)	45 cm	83,9
W-S-103	Wool (T-541)	45 cm	67,2
N-S-103	Nylon (T-365)	45 cm	87,4

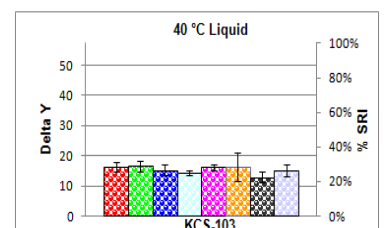
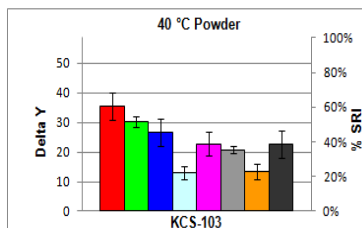
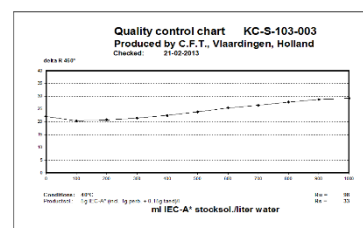
## C-S-103

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **9,6**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **40,6**



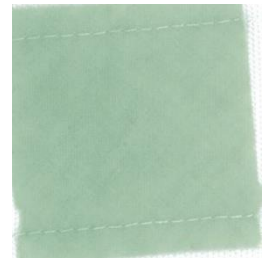
## KC-S-103

Discriminative Power<sup>2</sup>: **6,1**  
 Reproducibility Ratio: **6,8**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **42,8**





# C-S-04 Saturated with coloured olive oil



For measuring the removal of high amounts of fatty matter.

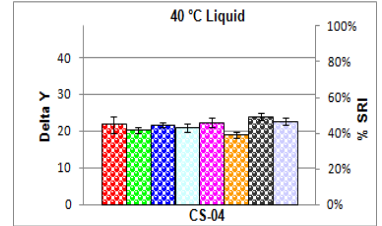
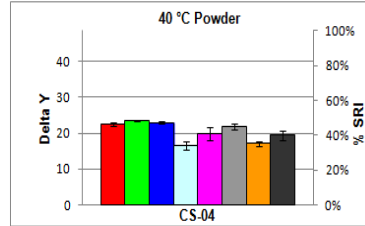
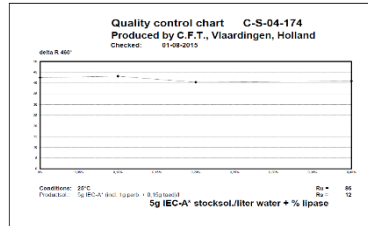
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-04	Cotton (CN-11)	45 cm	89,1
KC-S-04	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-04	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-04	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-04	PolyAcryl (PAN-01)	45 cm	89,3
S-S-04	Silk (T-601)	45 cm	83,9
W-S-04	Wool (T-541)	45 cm	67,2
N-S-04	Nylon (T-365)	45 cm	87,4

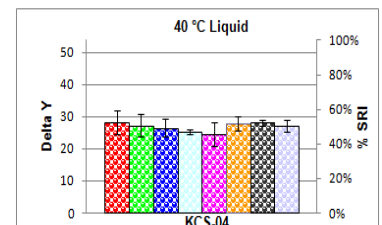
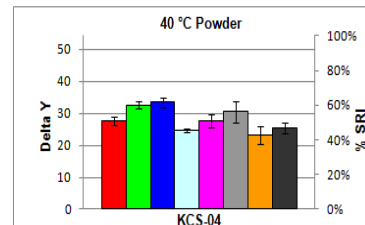
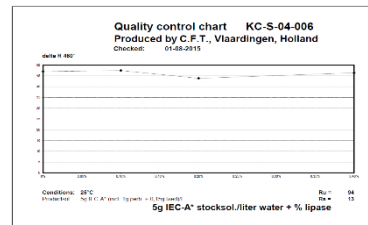
## C-S-04

Discriminative Power<sup>2</sup>: **5,6**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **19,6**

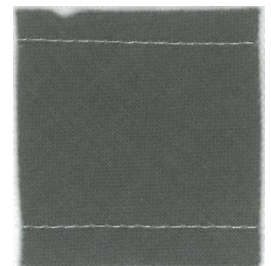


## KC-S-04

Discriminative Power<sup>2</sup>: **5,6**  
 Reproducibility Ratio: **7,5**  
 Reliability Ratio: **8,6**  
 Dynamic Range: **23,3**



# C-S-05S Mayonnaise with carbon black



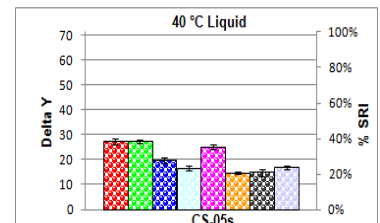
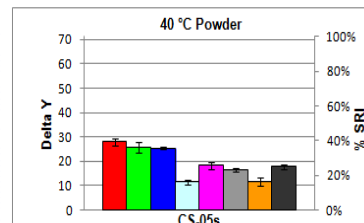
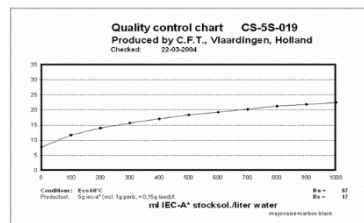
For measuring the removal of high amounts of fatty matter. Additional carbon black is applied to enable assessment by reflectometry. Represents a difficult to remove composite soil containing lipids and proteins. Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-05S	Cotton (CN-17)	90 cm	87,8
KC-S-05S	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-05S	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-05S	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-S-05S	PolyAcryl (PAN-01)	45 cm	89,3
S-S-05S	Silk (T-601)	45 cm	83,9
W-S-05S	Wool (T-541)	45 cm	67,2
N-S-05S	Nylon (T-365)	45 cm	87,4

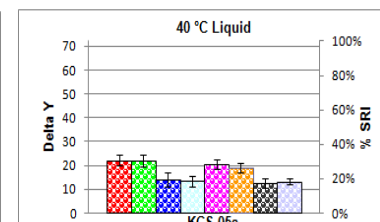
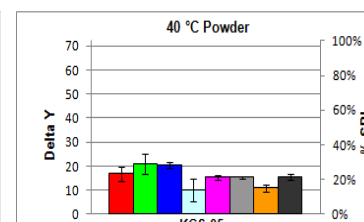
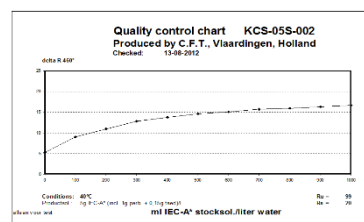
## C-S-05S

Discriminative Power<sup>2</sup>: **6,8**  
 Reproducibility Ratio: **8,9**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **24,4**



## KC-S-05S

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **7,4**  
 Reliability Ratio: **7,8**  
 Dynamic Range: **19,1**



# C-S-06

## Salad dressing with natural black



Difficult to remove soil, high level of agitation needed. Soil consist of: oil (25%), starch, modified starch, egg yolk, mustard, fruit, thickening agent and preservatives.

Not aged at elevated temperature.

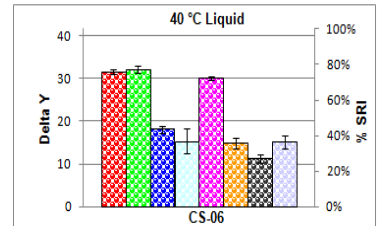
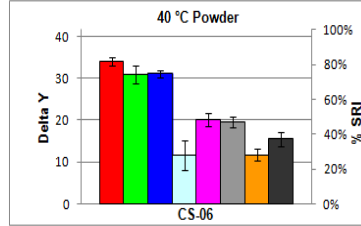
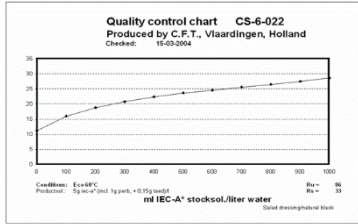


Order code:	Substrate:	Width:	Yu:
C-S-06	Cotton (T-400)	90 cm	88,9
KC-S-06	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-06	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-06	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-S-06	PolyAcryl (PAN-01)	45 cm	89,3
S-S-06	Silk (T-601)	45 cm	83,9
W-S-06	Wool (T-541)	45 cm	67,2
N-S-06	Nylon (T-365)	45 cm	87,4

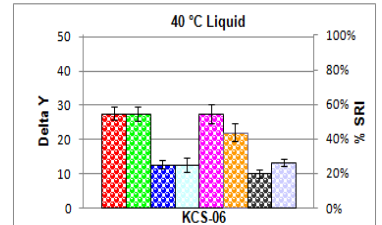
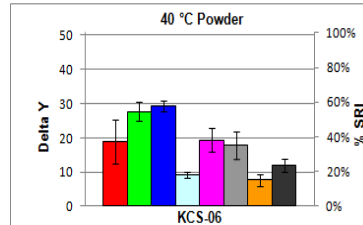
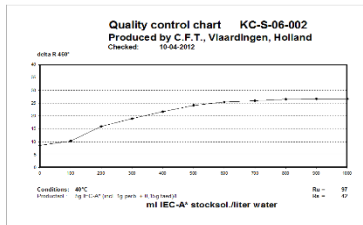
### C-S-06

Discriminative Power<sup>2</sup>: **7,7**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **57,2**



### KC-S-06

Discriminative Power<sup>2</sup>: **7,5**  
 Reproducibility Ratio: **8,1**  
 Reliability Ratio: **8,1**  
 Dynamic Range: **48,1**



# C-S-07

## Grass, pure



Stain made from pure grass.

Not aged at elevated temperature.

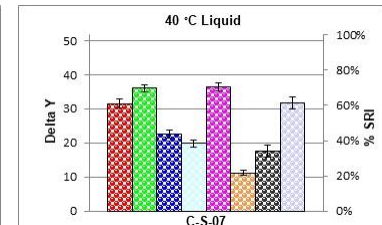
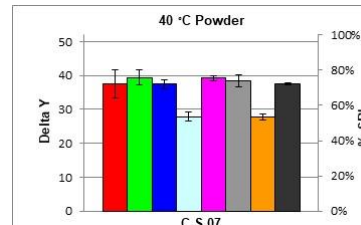
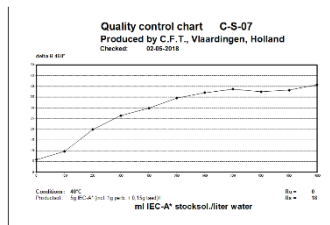


Order code:	Substrate:	Width:	Yu:
C-S-07	Cotton (CN-17)	90 cm	87,8
KC-S-07	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-07	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-07	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-07	PolyAcryl (PAN-01)	45 cm	89,3
S-S-07	Silk (T-601)	45 cm	83,9
W-S-07	Wool (T-541)	45 cm	67,2
N-S-07	Nylon (T-365)	45 cm	87,4

### C-S-07

Discriminative Power<sup>2</sup>: **7,1**  
 Reproducibility Ratio: **8,8**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **54,3**



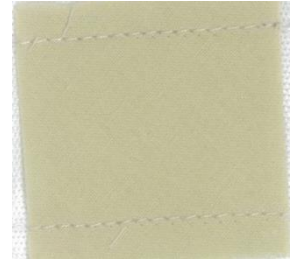
### KC-S-07

Discriminative Power<sup>2</sup>: **n/a**  
 Reproducibility Ratio: **n/a**  
 Reliability Ratio: **n/a**  
 Dynamic Range: **n/a**

Graphs unavailable

# C-S-08

Grass, extract



Stain made from real grass extract. Responds very well to proteolytic enzymes.

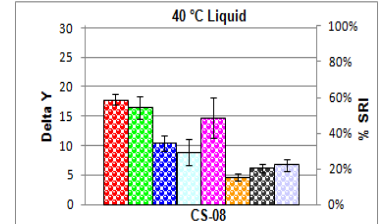
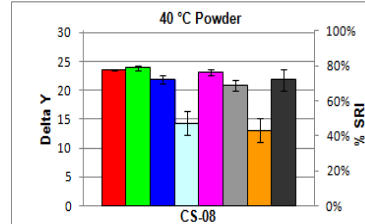
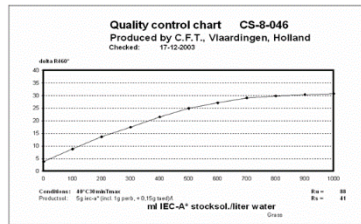
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-08	Cotton (CN-17)	90 cm	87,8
KC-S-08	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-08	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-08	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-08	PolyAcryl (PAN-01)	45 cm	89,3
S-S-08	Silk (T-601)	45 cm	83,9
W-S-08	Wool (T-541)	45 cm	67,2
N-S-08	Nylon (T-365)	45 cm	87,4

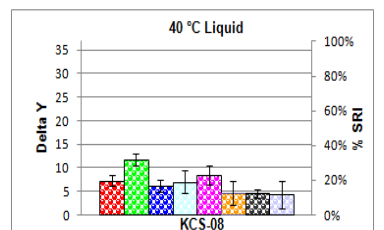
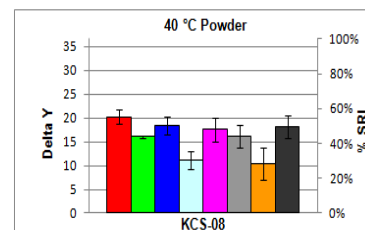
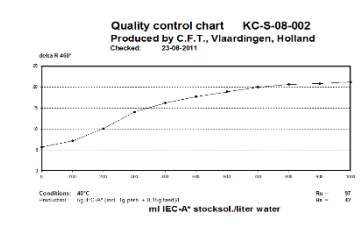
## C-S-08

Discriminative Power<sup>2</sup>: **6,4**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **62,8**



## KC-S-08

Discriminative Power<sup>2</sup>: **5,9**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **8,6**  
 Dynamic Range: **44,4**



# C-S-108

Grass, not aged



Stain made from real grass extract. Responds very well to proteolytic enzymes.

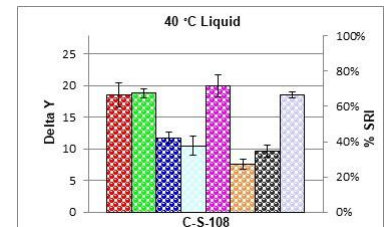
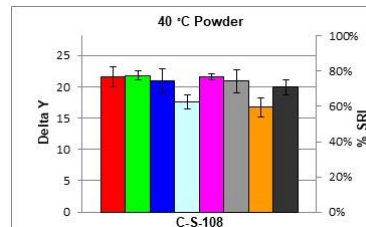
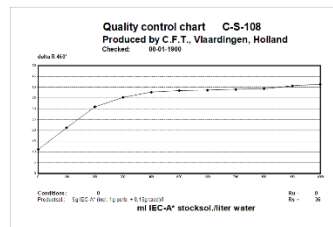
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-108	Cotton (CN-17)	90 cm	87,8
KC-S-108	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-108	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-108	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-108	PolyAcryl (PAN-01)	45 cm	89,3
S-S-108	Silk (T-601)	45 cm	83,9
W-S-108	Wool (T-541)	45 cm	67,2
N-S-108	Nylon (T-365)	45 cm	87,4

## C-S-108

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **50,1**



## KC-S-108

Discriminative Power<sup>2</sup>: **n/a**  
 Reproducibility Ratio: **n/a**  
 Reliability Ratio: **n/a**  
 Dynamic Range: **n/a**

Graphs unavailable

# C-S-09

## Egg yolk



Pure egg yolk stain. Suitable for measuring the overall detergency performance of the detergent.

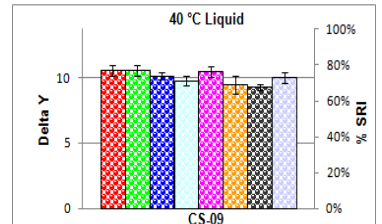
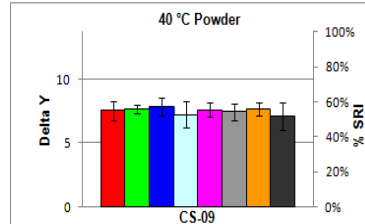
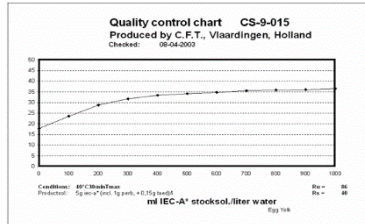
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-09	Cotton (CN-01)	90 cm	90,0
KC-S-09	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-09	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-09	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-09	PolyAcryl (PAN-01)	45 cm	89,3
S-S-09	Silk (T-601)	45 cm	83,9
W-S-09	Wool (T-541)	45 cm	67,2
N-S-09	Nylon (T-365)	45 cm	87,4

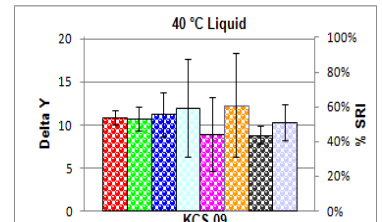
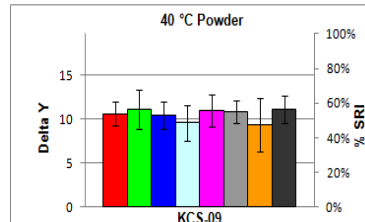
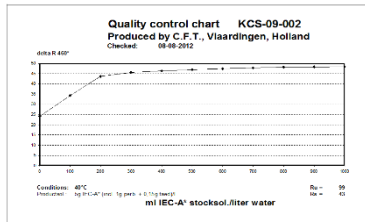
### C-S-09

Discriminative Power<sup>2</sup>: **4,5**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,8**  
 Dynamic Range: **28,2**



### KC-S-09

Discriminative Power<sup>2</sup>: **4,8**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **9,0**  
 Dynamic Range: **21,1**



# C-S-10

## Butterfat with colourant



Dehydrated butter coloured with yellow colourant. Suitable to evaluate performance of active systems and lipase enzymes.

Not aged at elevated temperature.

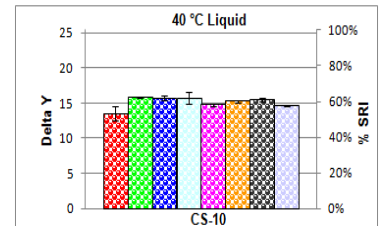
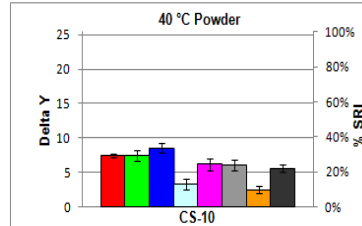
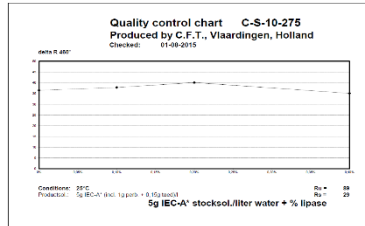


Order code:	Substrate:	Width:	Yu:
C-S-10	Cotton (CN-11)	45 cm	89,1
KC-S-10	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-10	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-10	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-10	PolyAcryl (PAN-01)	45 cm	89,3
S-S-10	Silk (T-601)	45 cm	83,9
W-S-10	Wool (T-541)	45 cm	67,2
N-S-10	Nylon (T-365)	45 cm	87,4

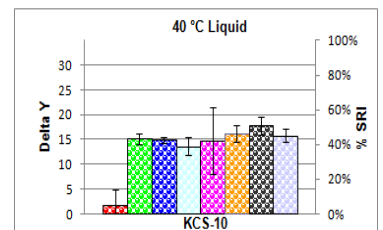
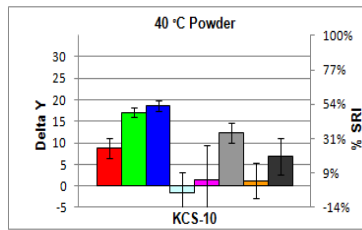
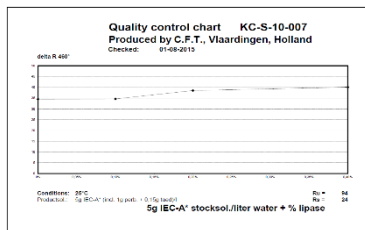
### C-S-10

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **54,7**



### KC-S-10

Discriminative Power<sup>2</sup>: **6,7**  
 Reproducibility Ratio: **8,4**  
 Reliability Ratio: **8,2**  
 Dynamic Range: **56,6**



# C-S-11

## Redcurrant juice, aged



Contains pectins next to natural colourants. This makes it extremely suitable to investigate the influence of enzyme cocktails on soil removal, especially at low temperature. Also sensitive to bleach. Aged at elevated temperature.

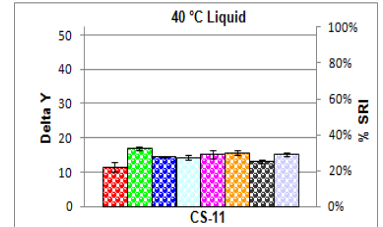
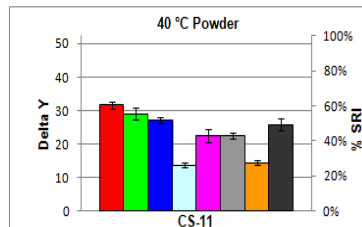
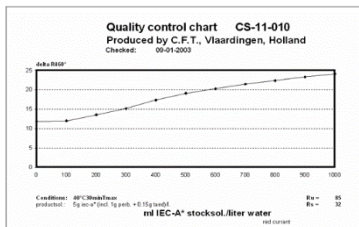


Order code:	Substrate:	Width:	Yu:
C-S-11	Cotton (CN-17)	45 cm	87,7
KC-S-11	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-11	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-11	Polyester (W-30 A)	45 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-S-11	PolyAcryl (PAN-01)	45 cm	89,3
S-S-11	Silk (T-601)	45 cm	83,9
W-S-11	Wool (T-541)	45 cm	67,2
N-S-11	Nylon (T-365)	45 cm	87,4

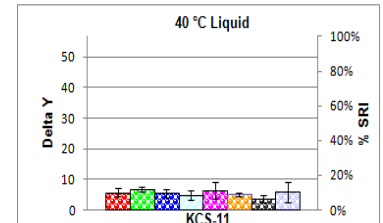
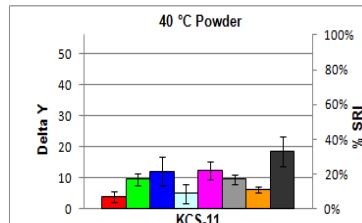
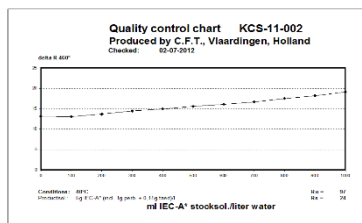
### C-S-11

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **38,9**



### KC-S-11

Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **8,1**  
 Reliability Ratio: **7,4**  
 Dynamic Range: **30,0**



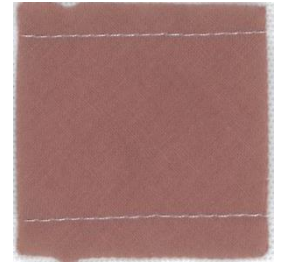
# C-S-12

## Blackcurrant juice, aged



Contains pectins next to natural colourants. This makes it extremely suitable to investigate the influence of enzyme cocktails on soil removal, especially at low temperature. Also sensitive to bleach.

Aged at elevated temperature. Also available in unaged version (C-S-112).

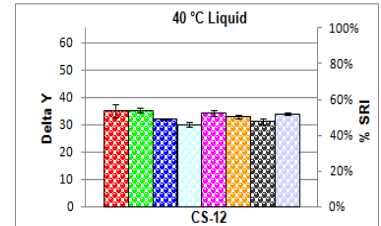
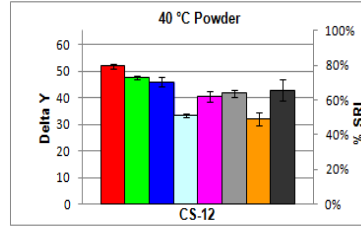
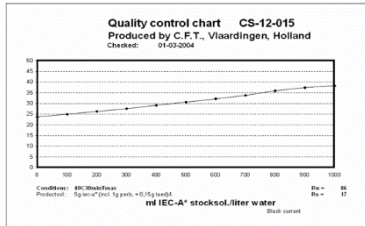


Order code:	Substrate:	Width:	Yu:
C-S-12	Cotton (CN-17)	90 cm	87,7
KC-S-12	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-12	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-12	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-S-12	PolyAcryl (PAN-01)	45 cm	89,3
S-S-12	Silk (T-601)	45 cm	83,9
W-S-12	Wool (T-541)	45 cm	67,2
N-S-12	Nylon (T-365)	45 cm	87,4

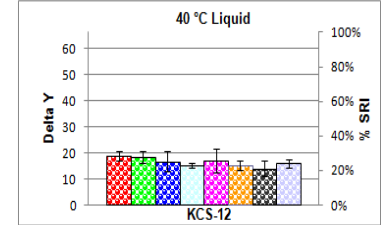
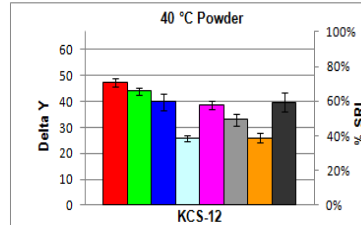
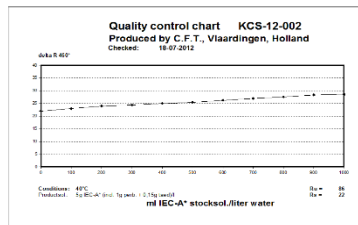
### C-S-12

Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **6,0**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **35,4**



### KC-S-12

Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **7,3**  
 Reliability Ratio: **7,6**  
 Dynamic Range: **48,5**



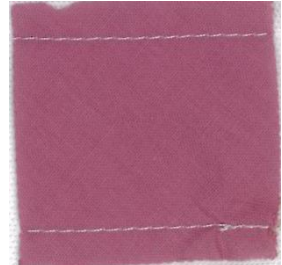
# C-S-112

## Blackcurrant juice



Contains pectins, next to natural colourants. This makes it extremely suitable to investigate the influence of enzyme cocktails on soil removal, especially at low temperature. Also sensitive to bleach.

Not aged at elevated temperature. Also available in aged version (C-S-12).

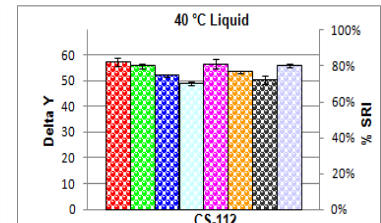
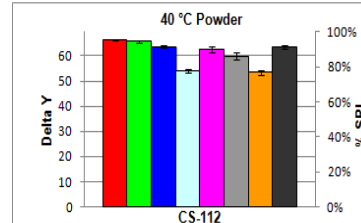
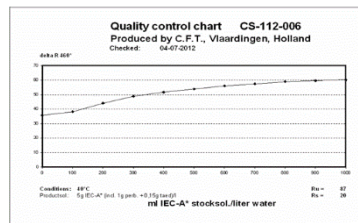


Order code:	Substrate:	Width:	Yu:
C-S-112	Cotton (CN-17)	90 cm	87,7
KC-S-112	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-112	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-112	Polyester	90 cm	

Order code:	Substrate:	Width:	Yu:
PA-S-112	PolyAcryl (PAN-01)	45 cm	89,3
S-S-112	Silk (T-601)	45 cm	83,9
W-S-112	Wool (T-541)	45 cm	67,2
N-S-112	Nylon (T-365)	45 cm	87,4

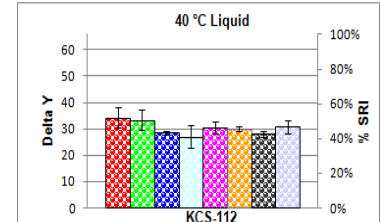
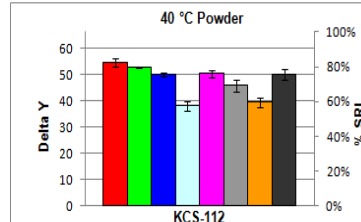
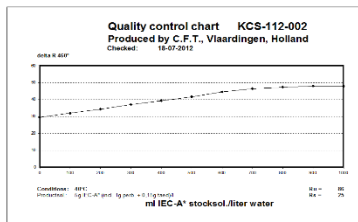
### C-S-112

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **28,9**



### KC-S-112

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **8,4**  
 Dynamic Range: **41,9**



# C-S-13

## Apple juice, aged



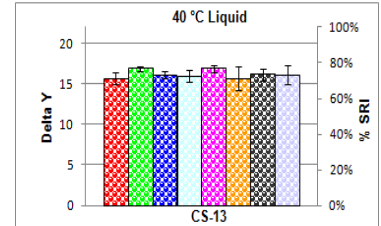
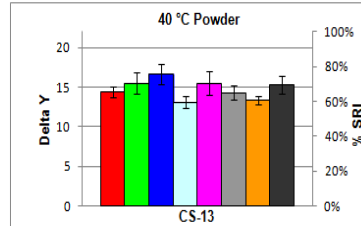
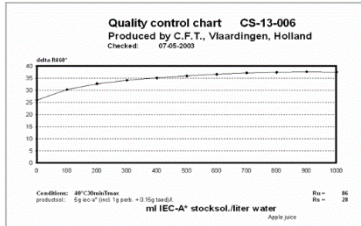
Contains pectins, next to natural colourants. This makes it extremely suitable to investigate the influence of enzyme cocktails on soil removal, especially at low temperature. Also sensitive to bleach. Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-13	Cotton (CN-17)	90 cm	87,7
KC-S-13	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-13	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-13	Polyester	90 cm	

Order code:	Substrate:	Width:	Yu:
PA-S-13	PolyAcryl (PAN-01)	45 cm	89,3
S-S-13	Silk (T-601)	45 cm	83,9
W-S-13	Wool (T-541)	45 cm	67,2
N-S-13	Nylon (T-365)	45 cm	87,4

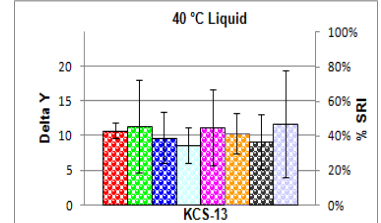
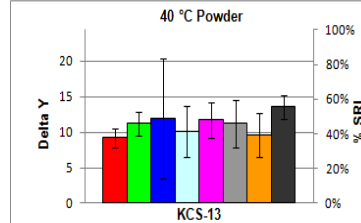
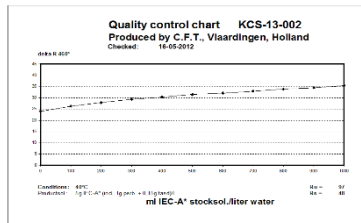
### C-S-13

Discriminative Power<sup>2</sup>: **4,7**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **21,5**



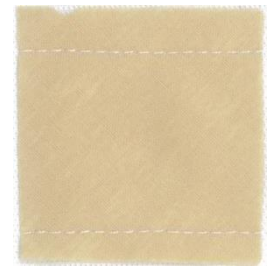
### KC-S-13

Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **8,7**  
 Reliability Ratio: **8,2**  
 Dynamic Range: **23,3**



# C-S-14

## Cherry juice, aged



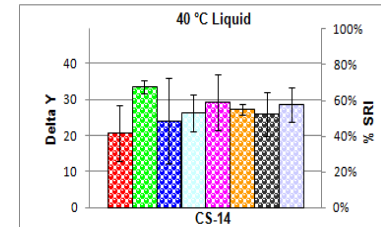
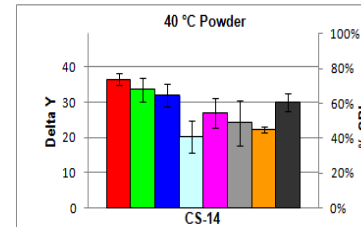
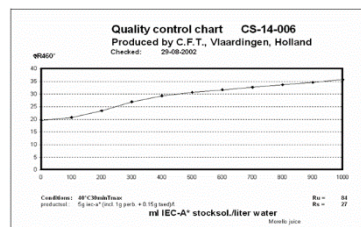
Contains pectins, next to natural colourants. This makes it extremely suitable to investigate the influence of enzyme cocktails on soil removal, especially at low temperature. Also sensitive to bleach. Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-14	Cotton (CN-17)	45 cm	87,7
KC-S-14	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-14	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-14	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-14	PolyAcryl (PAN-01)	45 cm	89,3
S-S-14	Silk (T-601)	45 cm	83,9
W-S-14	Wool (T-541)	45 cm	67,2
N-S-14	Nylon (T-365)	45 cm	87,4

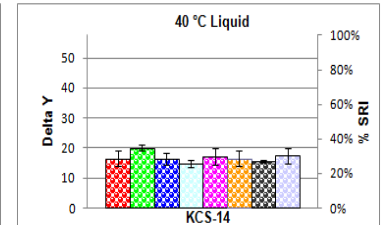
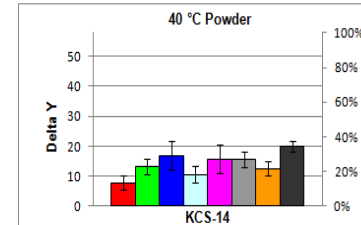
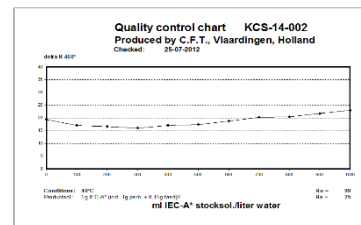
### C-S-14

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **7,8**  
 Reliability Ratio: **6,1**  
 Dynamic Range: **41,9**



### KC-S-14

Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **8,3**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **21,2**



# C-S-15

## Bil(blue)berry juice



Contains pectins, next to natural colourants. This makes it extremely suitable to investigate the influence of enzyme cocktails on soil removal, especially at low temperature. Also sensitive to bleach.

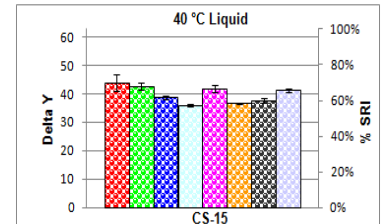
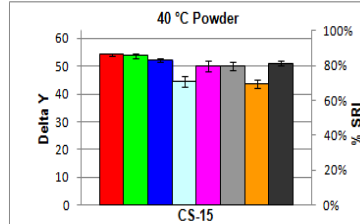
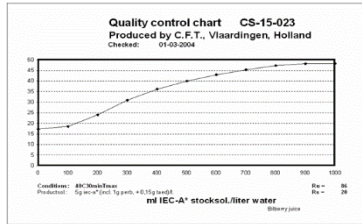
Aged at elevated temperature. Also available in unaged version (C-S-115).

Order code:	Substrate:	Width:	Yu:
C-S-15	Cotton (CN-17)	90 cm	87,7
KC-S-15	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-15	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-15	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-15	PolyAcryl (PAN-01)	45 cm	89,3
S-S-15	Silk (T-601)	45 cm	83,9
W-S-15	Wool (T-541)	45 cm	67,2
N-S-15	Nylon (T-365)	45 cm	87,4

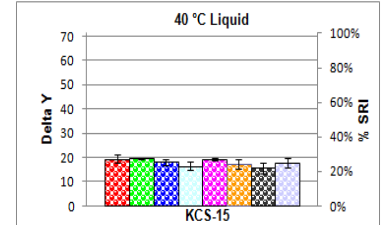
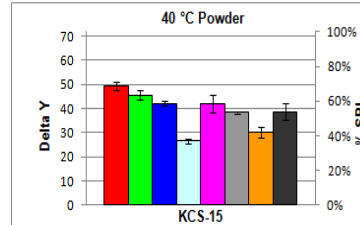
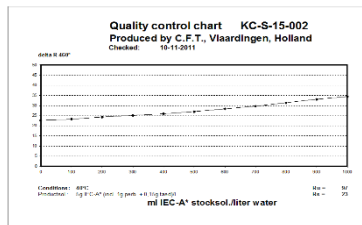
### C-S-15

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **31,3**



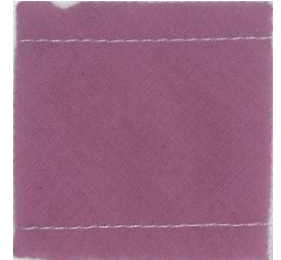
### KC-S-15

Discriminative Power<sup>2</sup>: **6,1**  
 Reproducibility Ratio: **6,4**  
 Reliability Ratio: **8,1**  
 Dynamic Range: **47,3**



# C-S-115

## Bil(blue)berry juice, not aged



Contains pectins, next to natural colourants. This makes it extremely suitable to investigate the influence of enzyme cocktails on soil removal, especially at low temperature. Also sensitive to bleach.

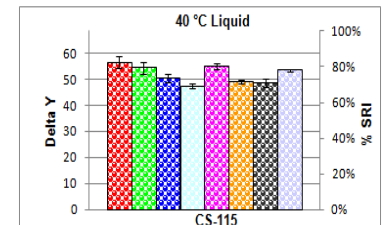
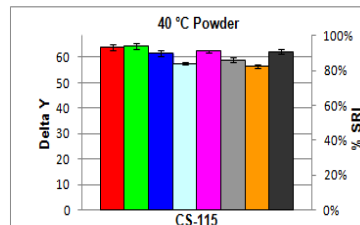
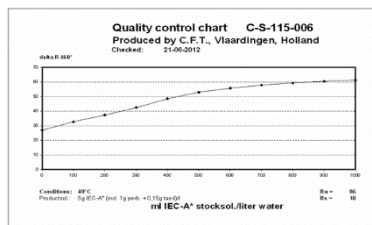
Not aged at elevated temperature. Also available in aged version (C-S-15).

Order code:	Substrate:	Width:	Yu:
C-S-115	Cotton (CN-17)	90 cm	87,7
KC-S-115	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-115	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-115	Polyester	90 cm	

Order code:	Substrate:	Width:	Yu:
PA-S-115	PolyAcryl (PAN-01)	45 cm	89,3
S-S-115	Silk (T-601)	45 cm	83,9
W-S-115	Wool (T-541)	45 cm	67,2
N-S-115	Nylon (T-365)	45 cm	87,4

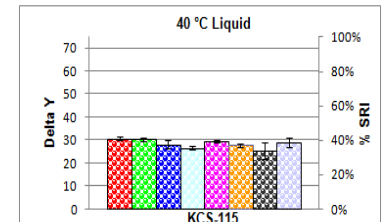
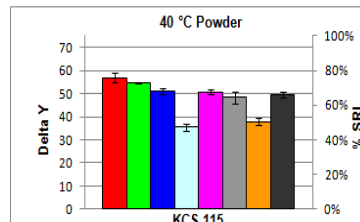
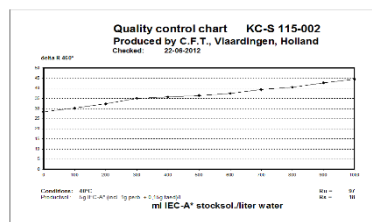
### C-S-115

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **8,0**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **27,9**



### KC-S-115

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **7,9**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **45,0**





# C-S-16

Lipstick, pink



For studying removal of a very realistic and common stain. Based on fatty matter and pigments. Might give redeposition problems due to high concentration of the lipstick.

Not aged at elevated temperature.

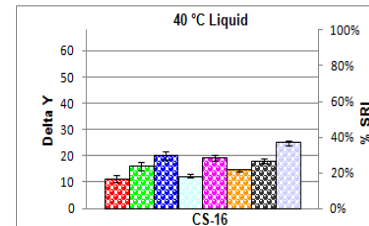
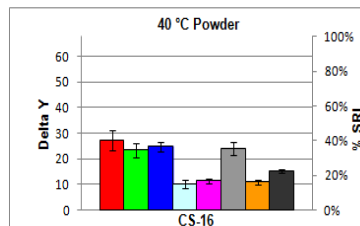
Order code:	Substrate:	Width:	Yu:
C-S-16	Cotton (CN-11)	45 cm	89,1
KC-S-16	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-16	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-16	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-16	PolyAcryl (PAN-01)	45 cm	89,3
S-S-16	Silk (T-601)	45 cm	83,9
W-S-16	Wool (T-541)	45 cm	67,2
N-S-16	Nylon (T-365)	45 cm	87,4

## C-S-16

Discriminative Power<sup>2</sup>: **6,6**  
 Reproducibility Ratio: **9,6**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **25,7**

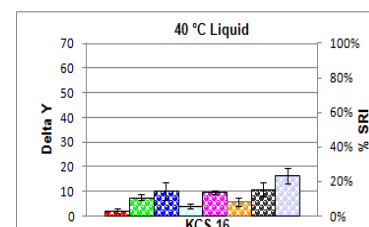
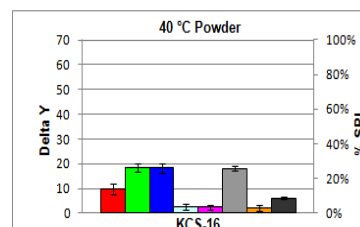
Graph  
unavailable



## KC-S-16

Discriminative Power<sup>2</sup>: **6,5**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **24,6**

Graph  
unavailable



# C-S-116

Lipstick, diluted, pink



For studying removal of a very realistic and common stain. Based on fatty matter and pigments.

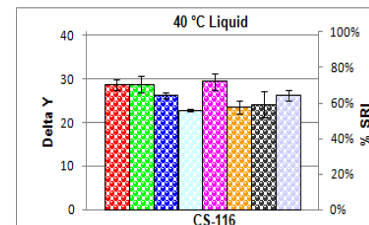
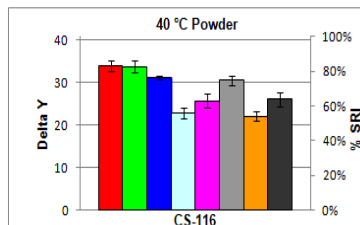
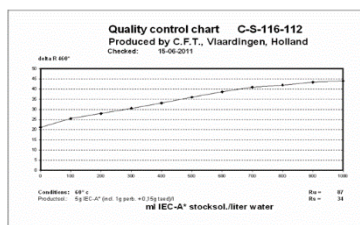
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-116	Cotton (CN-11)	90 cm	89,1
KC-S-116	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-116	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-116	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-116	PolyAcryl (PAN-01)	45 cm	89,3
S-S-116	Silk (T-601)	45 cm	83,9
W-S-116	Wool (T-541)	45 cm	67,2
N-S-116	Nylon (T-365)	45 cm	87,4

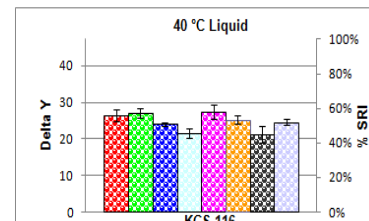
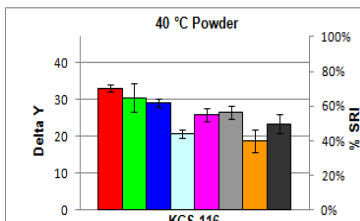
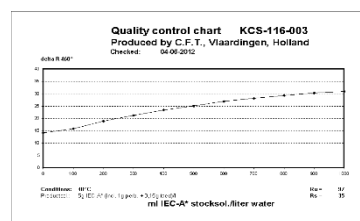
## C-S-116

Discriminative Power<sup>2</sup>: **6,1**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **36,7**

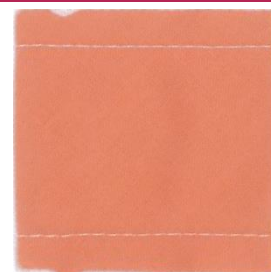


## KC-S-116

Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **38,1**



# C-S-216 Lipstick, diluted, red



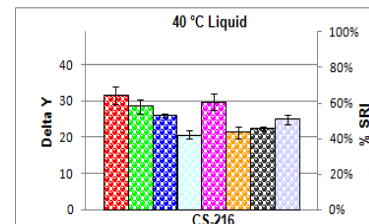
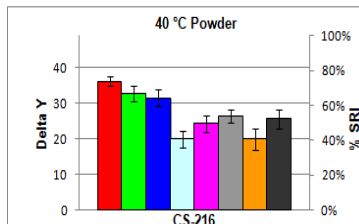
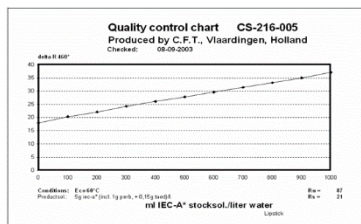
For studying removal of a very realistic and common stain. Based on fatty matter and pigments, but without much redeposition of the red pigments.

Not aged at elevated temperature.

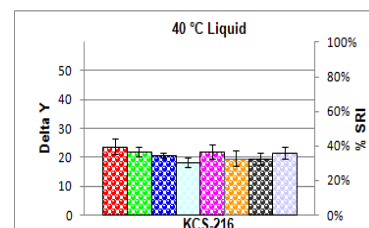
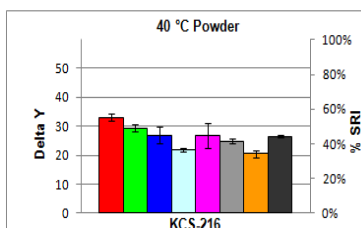
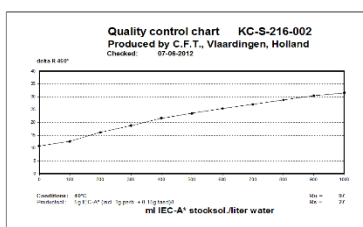
Order code:	Substrate:	Width:	Yu:
C-S-216	Cotton (CN-11)	90 cm	89,1
KC-S-216	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-216	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-216	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-216	PolyAcryl (PAN-01)	45 cm	89,3
S-S-216	Silk (T-601)	45 cm	83,9
W-S-216	Wool (T-541)	45 cm	67,2
N-S-216	Nylon (T-365)	45 cm	87,4

**C-S-216**  
 Discriminative Power<sup>2</sup>: **6,6**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **40,4**



**KC-S-216**  
 Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **27,9**



# C-S-17 Fluid make-up



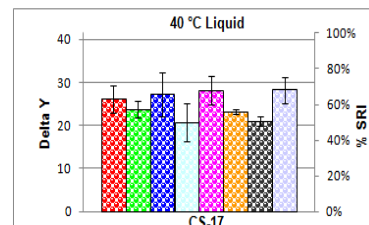
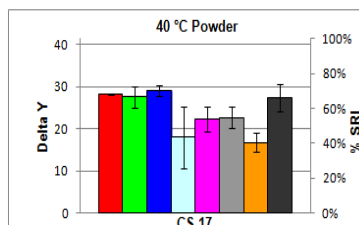
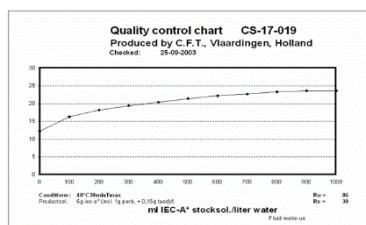
For studying removal of a very realistic and common stain.

Not aged at elevated temperature.

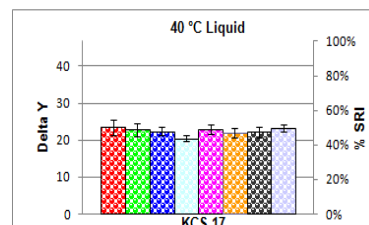
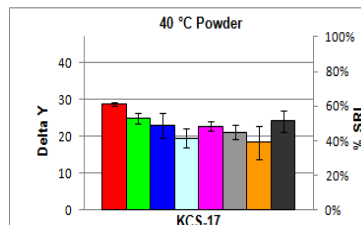
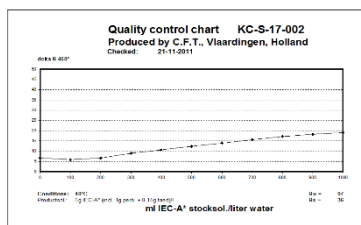
Order code:	Substrate:	Width:	Yu:
C-S-17	Cotton (CN-17)	90 cm	89,1
KC-S-17	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-17	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-17	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-17	PolyAcryl (PAN-01)	45 cm	89,3
S-S-17	Silk (T-601)	45 cm	83,9
W-S-17	Wool (T-541)	45 cm	67,2
N-S-17	Nylon (T-365)	45 cm	87,4

**C-S-17**  
 Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **9,6**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **37,7**

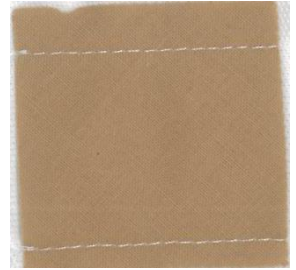


**KC-S-17**  
 Discriminative Power<sup>2</sup>: **5,4**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **28,9**



# C-S-18

## Strawberry juice, aged



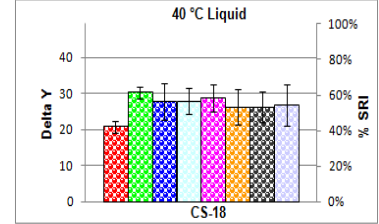
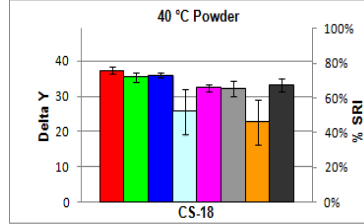
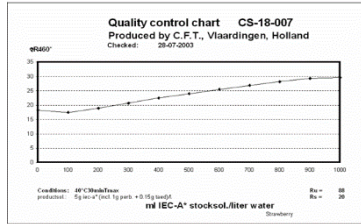
Strawberry juice contains, next to natural colourants, many different components. This makes it extremely suitable to investigate the influence of enzyme cocktails, even at low temperatures. Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-18	Cotton (CN-17)	45 cm	87,7
KC-S-18	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-18	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-18	Polyester	45 cm	

Order code:	Substrate:	Width:	Yu:
PA-S-18	PolyAcryl (PAN-01)	45 cm	89,3
S-S-18	Silk (T-601)	45 cm	83,9
W-S-18	Wool (T-541)	45 cm	67,2
N-S-18	Nylon (T-365)	45 cm	87,4

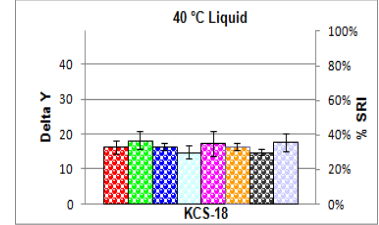
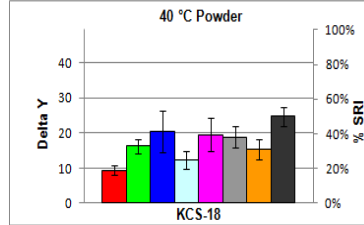
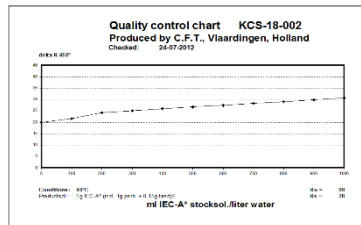
### C-S-18

Discriminative Power<sup>2</sup>: **5,9**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **7,4**  
 Dynamic Range: **34,4**



### KC-S-18

Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **8,0**  
 Dynamic Range: **31,4**



# C-S-19

## Peach juice, aged



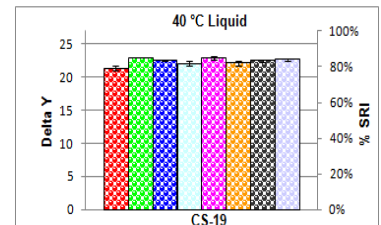
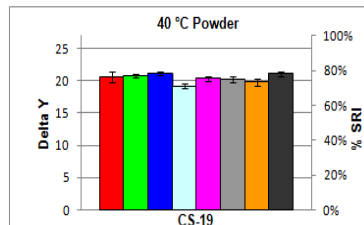
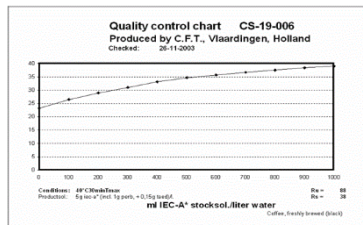
Peach juice contains, next to natural colourants, many different components. This makes it extremely suitable to investigate the influence of enzyme cocktails, even at low temperatures. Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-19	Cotton (CN-17)	45 cm	87,7
KC-S-19	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-19	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-19	Polyester	45 cm	

Order code:	Substrate:	Width:	Yu:
PA-S-19	PolyAcryl (PAN-01)	45 cm	89,3
S-S-19	Silk (T-601)	45 cm	83,9
W-S-19	Wool (T-541)	45 cm	67,2
N-S-19	Nylon (T-365)	45 cm	87,4

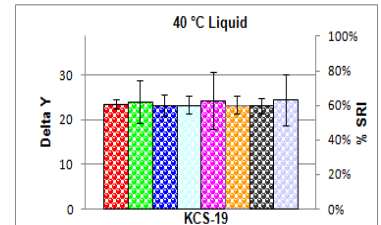
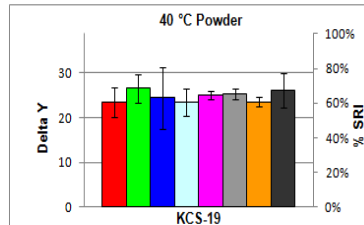
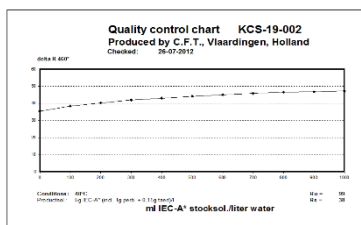
### C-S-19

Discriminative Power<sup>2</sup>: **4,6**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **9,7**  
 Dynamic Range: **16,7**



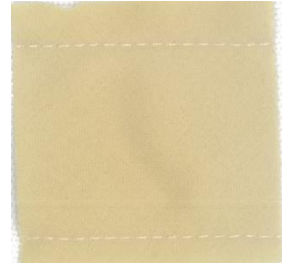
### KC-S-19

Discriminative Power<sup>2</sup>: **4,7**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **8,3**  
 Dynamic Range: **13,9**



# C-S-20

Tomato



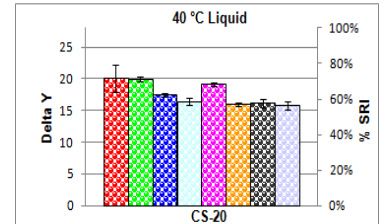
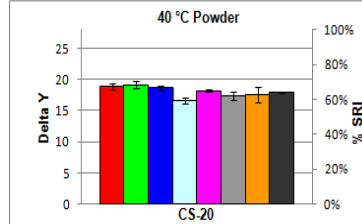
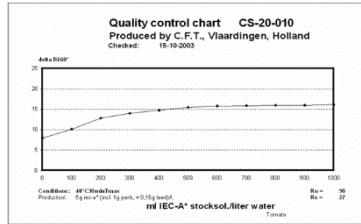
Tomato contains, next to natural colourants, many different components. This makes it extremely suitable to investigate the influence of enzyme cocktails, even at low temperatures. It is bleach sensitive as well. Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-20	Cotton (CN-11)	45 cm	89,1
KC-S-20	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-20	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-20	Polyester (W-30 A)	45 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-S-20	PolyAcryl (PAN-01)	45 cm	89,3
S-S-20	Silk (T-601)	45 cm	83,9
W-S-20	Wool (T-541)	45 cm	67,2
N-S-20	Nylon (T-365)	45 cm	87,4

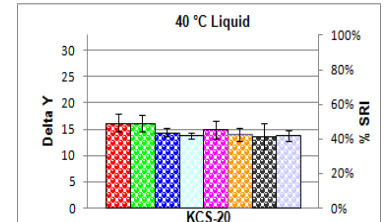
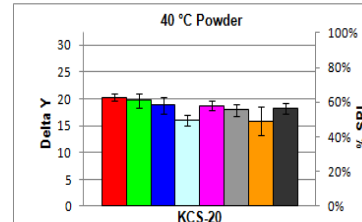
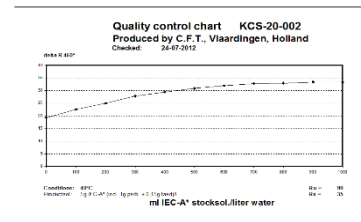
## C-S-20

Discriminative Power<sup>2</sup>: **5,1**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **9,7**  
 Dynamic Range: **19,1**



## KC-S-20

Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **20,8**



# C-S-120

Tomato, double application



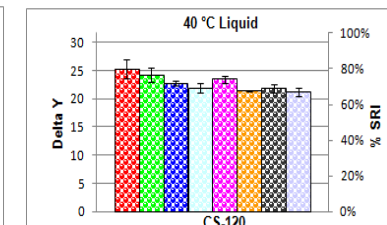
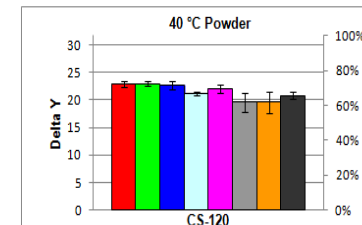
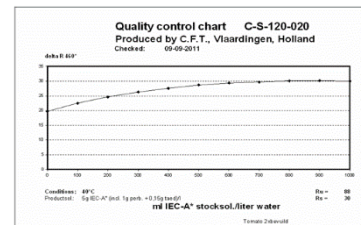
Tomato contains, next to natural colourants, many different components. This makes it extremely suitable to investigate the influence of enzyme cocktails, even at low temperatures. It is bleach sensitive as well. Darker than C-S-20. Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-120	Cotton (CN-11)	45 cm	89,1
KC-S-120	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-120	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-120	Polyester	45 cm	

Order code:	Substrate:	Width:	Yu:
PA-S-120	PolyAcryl (PAN-01)	45 cm	89,3
S-S-120	Silk (T-601)	45 cm	83,9
W-S-120	Wool (T-541)	45 cm	67,2
N-S-120	Nylon (T-365)	45 cm	87,4

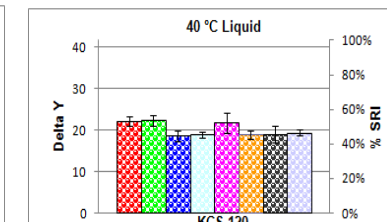
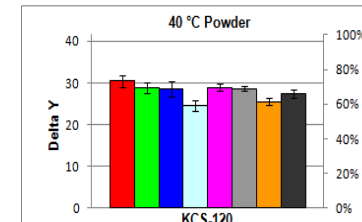
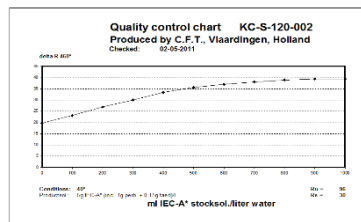
## C-S-120

Discriminative Power<sup>2</sup>: **5,1**  
 Reproducibility Ratio: **9,6**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **19,3**



## KC-S-120

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **29,6**



# C-S-21

## Blackberry juice, aged



Blackberry juice contains, next to natural colourants, many different components. This makes it extremely suitable to investigate the influence of enzyme cocktails, even at low temperatures. Aged at elevated temperature.

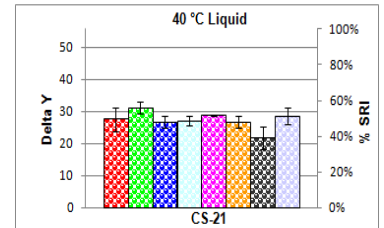
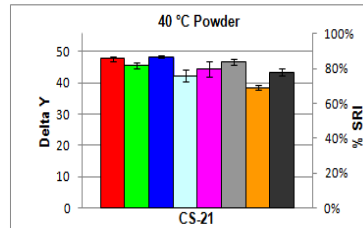
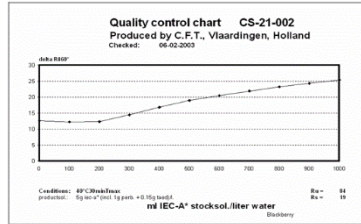


Order code:	Substrate:	Width:	Yu:
C-S-21	Cotton (CN-17)	90 cm	87,7
KC-S-21	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-21	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-21	Polyester	90 cm	

Order code:	Substrate:	Width:	Yu:
PA-S-21	PolyAcryl (PAN-01)	45 cm	89,3
S-S-21	Silk (T-601)	45 cm	83,9
W-S-21	Wool (T-541)	45 cm	67,2
N-S-21	Nylon (T-365)	45 cm	87,4

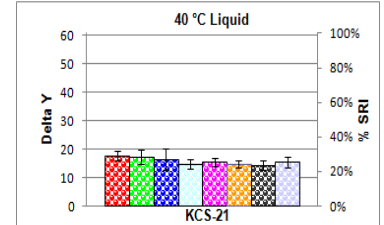
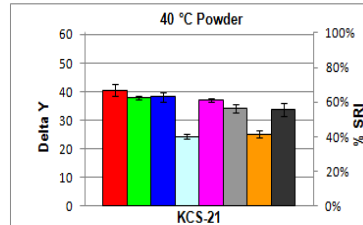
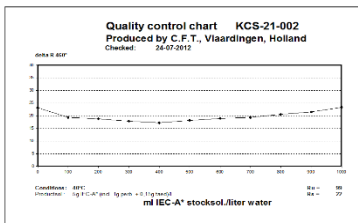
### C-S-21

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,0**  
 Dynamic Range: **50,6**



### KC-S-21

Discriminative Power<sup>2</sup>: **5,9**  
 Reproducibility Ratio: **8,7**  
 Reliability Ratio: **8,6**  
 Dynamic Range: **43,1**



# C-S-22

## Kiwi juice, aged



Kiwi juice contains, next to natural colourants, many different components. This makes it extremely suitable to investigate the influence of enzyme cocktails, even at low temperatures. Aged at elevated temperature.

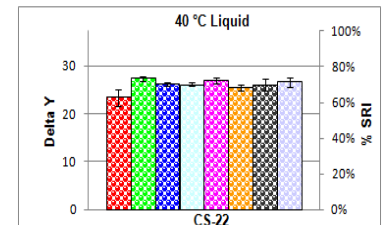
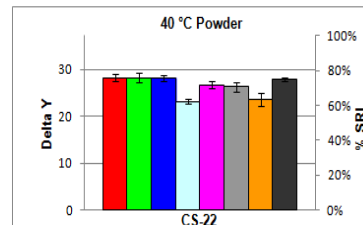
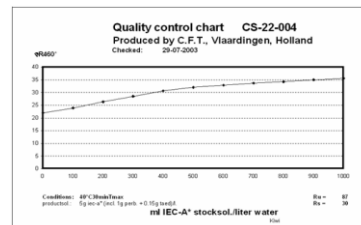


Order code:	Substrate:	Width:	Yu:
C-S-22	Cotton (CN-17)	45 cm	87,7
KC-S-22	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-22	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-22	Polyester	45 cm	

Order code:	Substrate:	Width:	Yu:
PA-S-22	PolyAcryl (PAN-01)	45 cm	89,3
S-S-22	Silk (T-601)	45 cm	83,9
W-S-22	Wool (T-541)	45 cm	67,2
N-S-22	Nylon (T-365)	45 cm	87,4

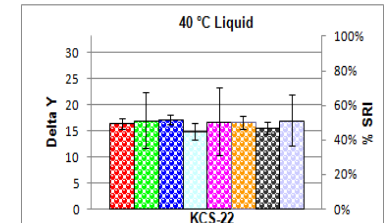
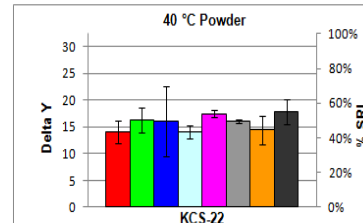
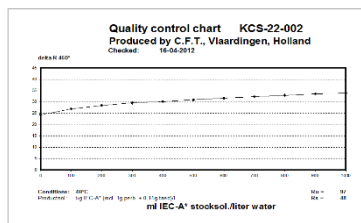
### C-S-22

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **16,9**



### KC-S-22

Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **8,7**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **17,5**



# C-S-23

## Mango juice, aged



Mango juice (from mango extract) contains, next to natural colourants, many different components. This makes it extremely suitable to investigate the influence of enzyme cocktails, even at low temperatures. Aged at elevated temperature.

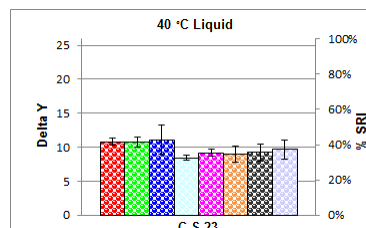
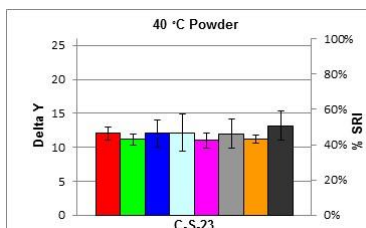
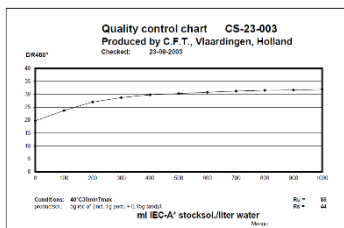


Order code:	Substrate:	Width:	Yu:
C-S-23	Cotton (CN-17)	45 cm	87,7
KC-S-23	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-23	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-23	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-23	PolyAcryl (PAN-01)	45 cm	89,3
S-S-23	Silk (T-601)	45 cm	83,9
W-S-23	Wool (T-541)	45 cm	67,2
N-S-23	Nylon (T-365)	45 cm	87,4

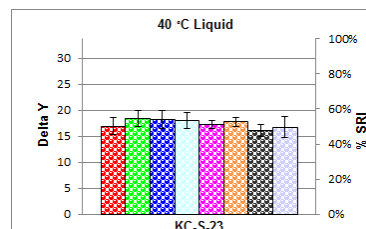
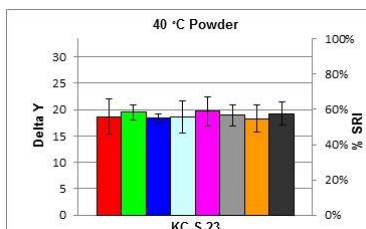
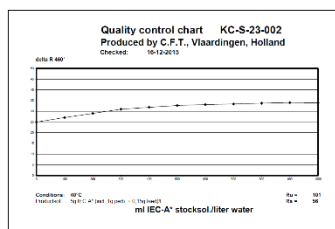
### C-S-23

Discriminative Power<sup>2</sup>: **4,6**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **18,2**



### KC-S-23

Discriminative Power<sup>2</sup>: **4,6**  
 Reproducibility Ratio: **8,4**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **16,1**



# ~~C-S-23S~~

## Mango, diluted concentrate

Order code:	Substrate:	Width:	Yu:
C-S-23S	Cotton (CN-17)	45 cm	87,7
KC-S-23S	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-23S	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-23S	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-23S	PolyAcryl (PAN-01)	45 cm	89,3
S-S-23S	Silk (T-601)	45 cm	83,9
W-S-23S	Wool (T-541)	45 cm	67,2
N-S-23S	Nylon (T-365)	45 cm	87,4

### C-S-23S

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**

### KC-S-23S

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**

C-S-23 is an alternative for this stain

# C-S-24 Red pepper



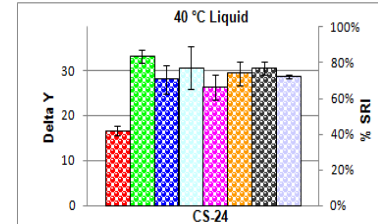
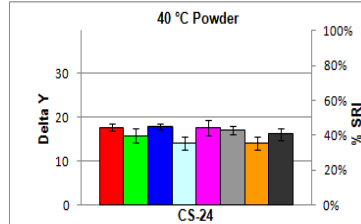
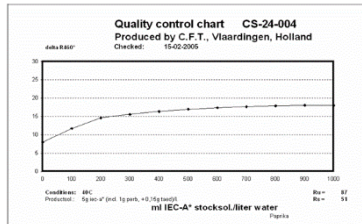
This product is a suitable addition to the Bleach Cloths to measure bleach performance. It can also be used to measure the effects of different enzymes in the enzyme cocktail.  
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-24	Cotton (CN-11)	45 cm	89,1
KC-S-24	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-24	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-24	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-24	PolyAcryl (PAN-01)	45 cm	89,3
S-S-24	Silk (T-601)	45 cm	83,9
W-S-24	Wool (T-541)	45 cm	67,2
N-S-24	Nylon (T-365)	45 cm	87,4

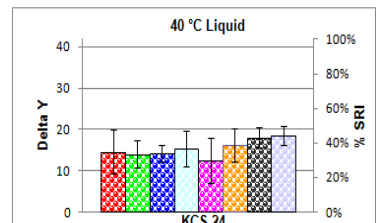
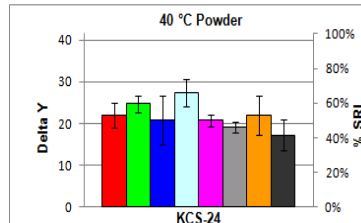
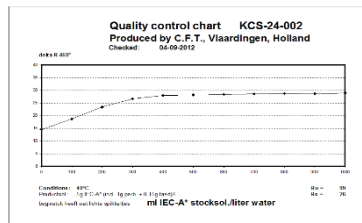
## C-S-24

Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **53,2**

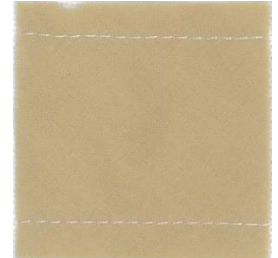


## KC-S-24

Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **7,8**  
 Dynamic Range: **41,7**



# C-S-25 Spinach concentrate



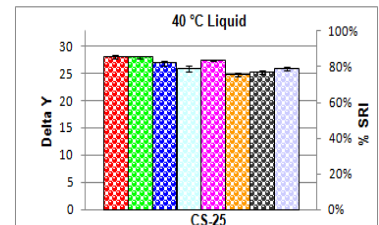
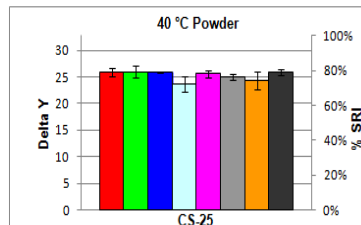
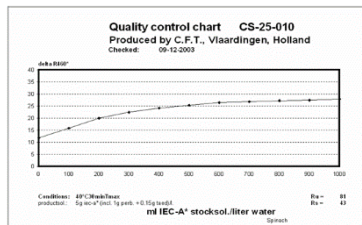
Responds to proteolytic enzymes. Comparable to grass stains.  
 Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-25	Cotton (CN-11)	45 cm	89,1
KC-S-25	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-25	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-25	Polyester (W-30 A)	45 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-S-25	PolyAcryl (PAN-01)	45 cm	89,3
S-S-25	Silk (T-601)	45 cm	83,9
W-S-25	Wool (T-541)	45 cm	67,2
N-S-25	Nylon (T-365)	45 cm	87,4

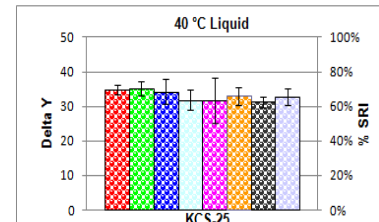
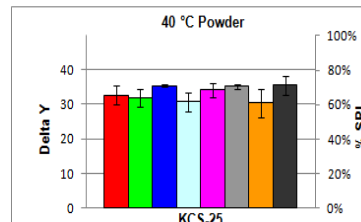
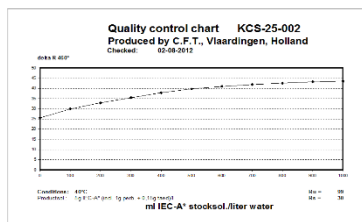
## C-S-25

Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,7**  
 Dynamic Range: **13,6**



## KC-S-25

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **8,6**  
 Dynamic Range: **12,3**



# C-S-26

## Corn starch, coloured



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase.

Not aged at elevated temperature.

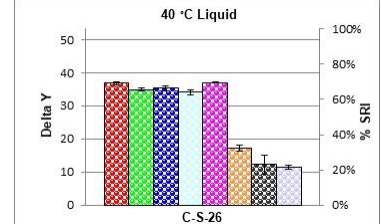
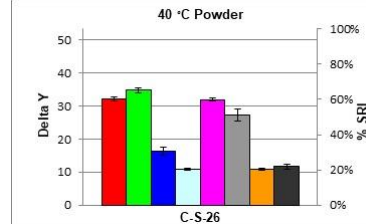
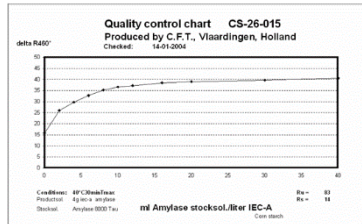


Order code:	Substrate:	Width:	Yu:
C-S-26	Cotton (T-400)	90 cm	88,9
KC-S-26	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-26	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-26	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-26	PolyAcryl (PAN-01)	45 cm	89,3
S-S-26	Silk (T-601)	45 cm	83,9
W-S-26	Wool (T-541)	45 cm	67,2
N-S-26	Nylon (T-365)	45 cm	87,4

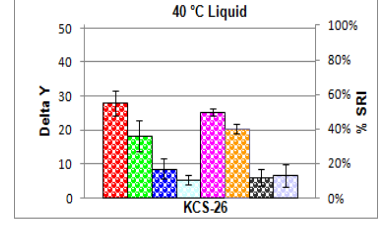
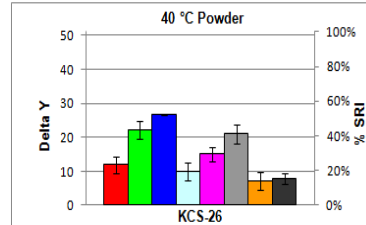
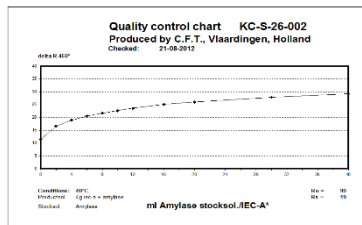
### C-S-26

Discriminative Power<sup>2</sup>: **7,5**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **54,8**



### KC-S-26

Discriminative Power<sup>2</sup>: **7,4**  
 Reproducibility Ratio: **7,5**  
 Reliability Ratio: **7,6**  
 Dynamic Range: **48,6**



# C-S-27

## Potato starch, coloured



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase.

Not aged at elevated temperature.

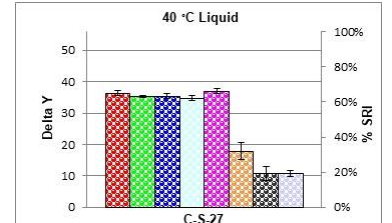
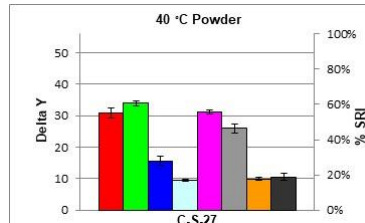
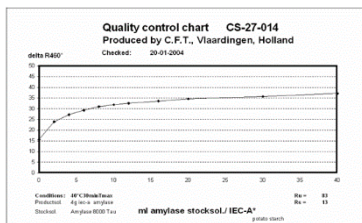


Order code:	Substrate:	Width:	Yu:
C-S-27	Cotton (T-400)	90 cm	88,9
KC-S-27	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-27	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-27	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-27	PolyAcryl (PAN-01)	45 cm	89,3
S-S-27	Silk (T-601)	45 cm	83,9
W-S-27	Wool (T-541)	45 cm	67,2
N-S-27	Nylon (T-365)	45 cm	87,4

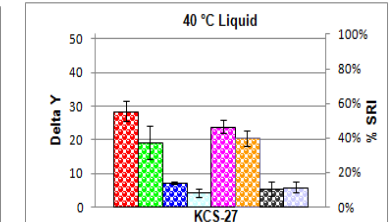
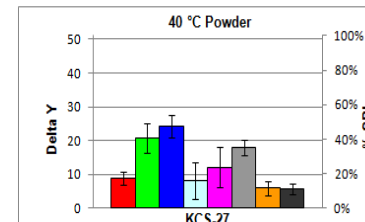
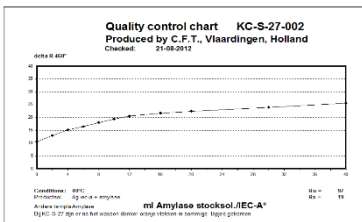
### C-S-27

Discriminative Power<sup>2</sup>: **7,6**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **56,2**



### KC-S-27

Discriminative Power<sup>2</sup>: **7,3**  
 Reproducibility Ratio: **7,5**  
 Reliability Ratio: **7,3**  
 Dynamic Range: **48,6**





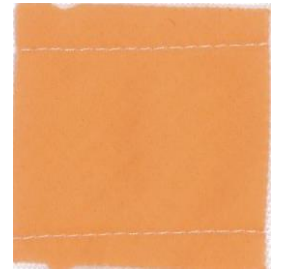
# C-S-28

## Rice starch, coloured



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase.

Not aged at elevated temperature.

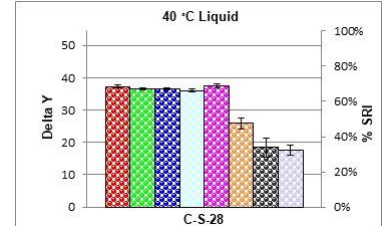
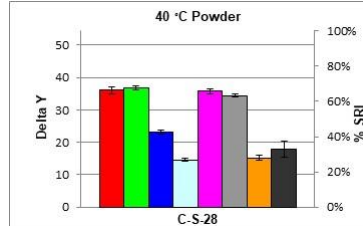
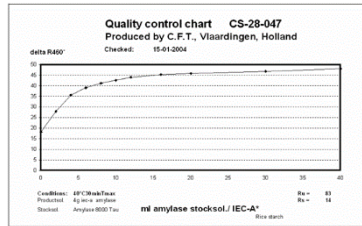


Order code:	Substrate:	Width:	Yu:
C-S-28	Cotton (T-400)	90 cm	88,9
KC-S-28	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-28	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-28	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-28	PolyAcryl (PAN-01)	45 cm	89,3
S-S-28	Silk (T-601)	45 cm	83,9
W-S-28	Wool (T-541)	45 cm	67,2
N-S-28	Nylon (T-365)	45 cm	87,4

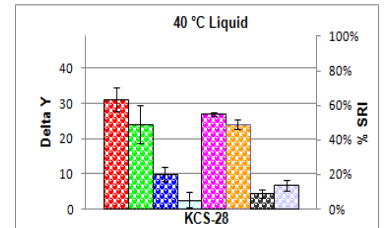
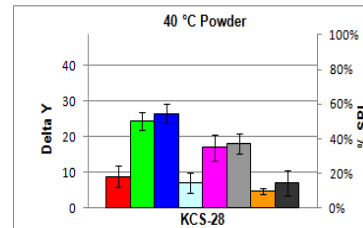
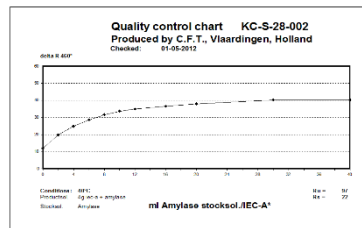
### C-S-28

Discriminative Power<sup>2</sup>: **7,3**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **46,4**



### KC-S-28

Discriminative Power<sup>2</sup>: **7,7**  
 Reproducibility Ratio: **6,9**  
 Reliability Ratio: **7,6**  
 Dynamic Range: **56,3**



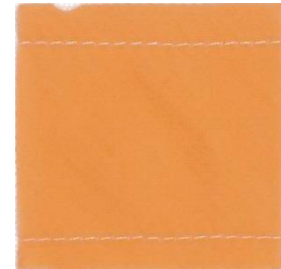
# C-S-29

## Tapioca starch, coloured



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase.

Not aged at elevated temperature.

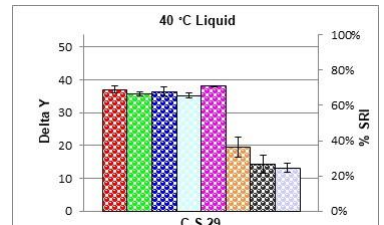
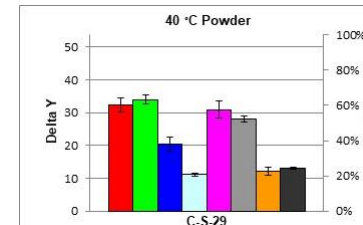
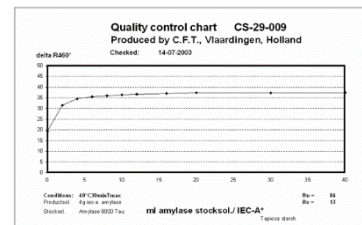


Order code:	Substrate:	Width:	Yu:
C-S-29	Cotton (T-400)	90 cm	88,9
KC-S-29	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-29	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-29	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-29	PolyAcryl (PAN-01)	45 cm	89,3
S-S-29	Silk (T-601)	45 cm	83,9
W-S-29	Wool (T-541)	45 cm	67,2
N-S-29	Nylon (T-365)	45 cm	87,4

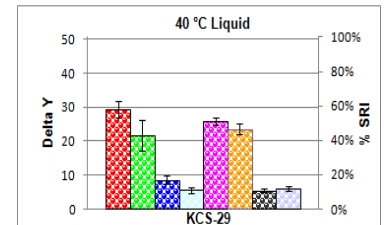
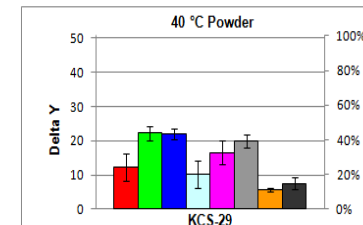
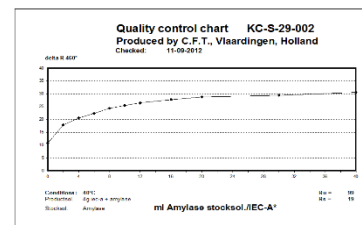
### C-S-29

Discriminative Power<sup>2</sup>: **7,5**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **55,4**



### KC-S-29

Discriminative Power<sup>2</sup>: **7,4**  
 Reproducibility Ratio: **7,4**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **49,3**



# C-S-126 Corn starch, coloured, aged



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase. Aged, so more difficult to clean.

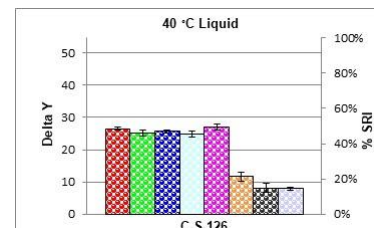
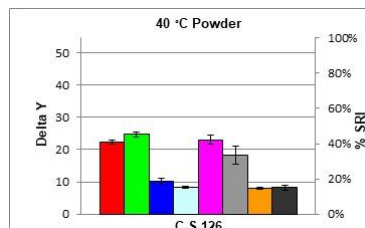
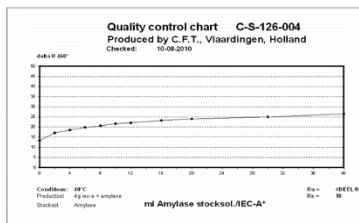
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-126	Cotton (T-400)	90 cm	88,9
KC-S-126	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-126	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-126	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-126	PolyAcryl (PAN-01)	45 cm	89,3
S-S-126	Silk (T-601)	45 cm	83,9
W-S-126	Wool (T-541)	45 cm	67,2
N-S-126	Nylon (T-365)	45 cm	87,4

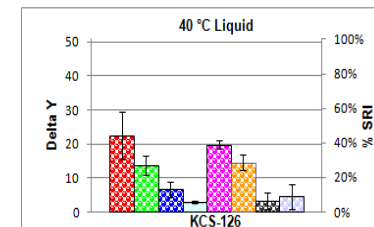
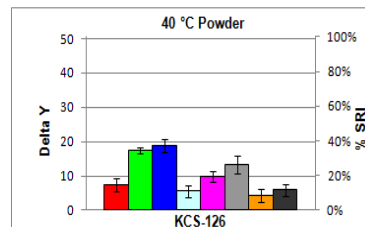
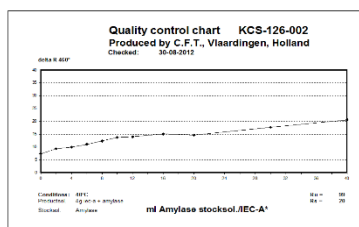
## C-S-126

Discriminative Power<sup>2</sup>: **6,8**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **36,6**



## KC-S-126

Discriminative Power<sup>2</sup>: **6,9**  
 Reproducibility Ratio: **7,3**  
 Reliability Ratio: **7,5**  
 Dynamic Range: **41,7**



# C-S-127 Potato starch, coloured, aged



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase. Aged, so more difficult to clean.

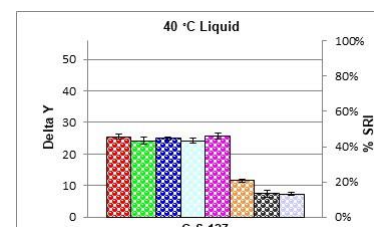
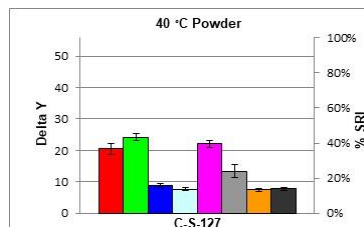
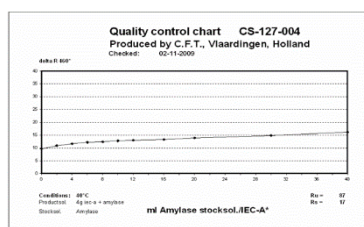
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-127	Cotton (T-400)	90 cm	88,9
KC-S-127	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-127	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-127	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-127	PolyAcryl (PAN-01)	45 cm	89,3
S-S-127	Silk (T-601)	45 cm	83,9
W-S-127	Wool (T-541)	45 cm	67,2
N-S-127	Nylon (T-365)	45 cm	87,4

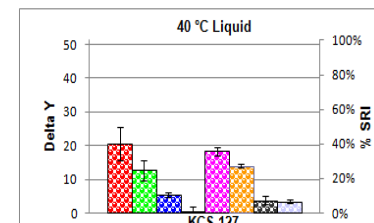
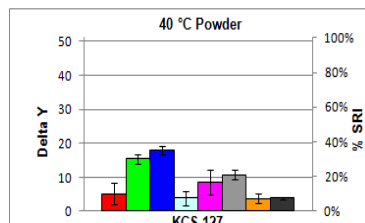
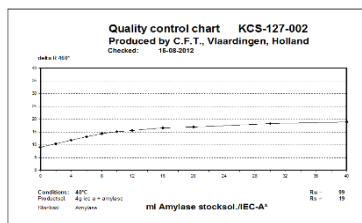
## C-S-127

Discriminative Power<sup>2</sup>: **6,6**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **35,5**



## KC-S-127

Discriminative Power<sup>2</sup>: **6,9**  
 Reproducibility Ratio: **7,5**  
 Reliability Ratio: **7,8**  
 Dynamic Range: **38,7**



# C-S-128 Rice starch, coloured, aged



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase. Aged, so more difficult to clean.

Aged at elevated temperature.

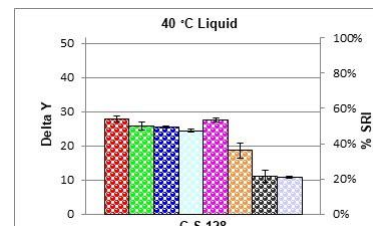
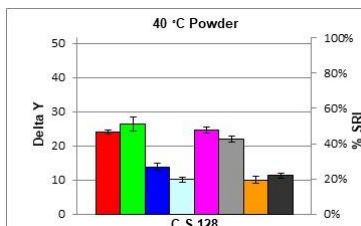
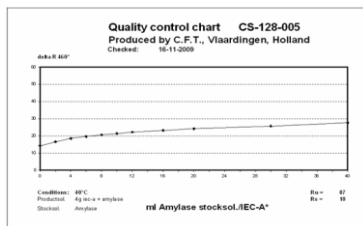


Order code:	Substrate:	Width:	Yu:
C-S-128	Cotton (T-400)	90 cm	88,9
KC-S-128	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-128	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-128	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-128	PolyAcryl (PAN-01)	45 cm	89,3
S-S-128	Silk (T-601)	45 cm	83,9
W-S-128	Wool (T-541)	45 cm	67,2
N-S-128	Nylon (T-365)	45 cm	87,4

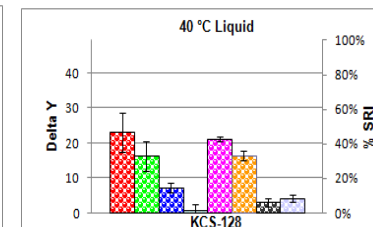
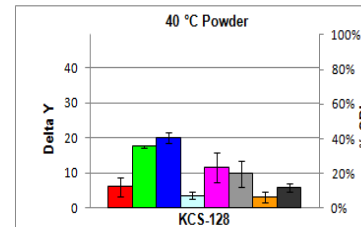
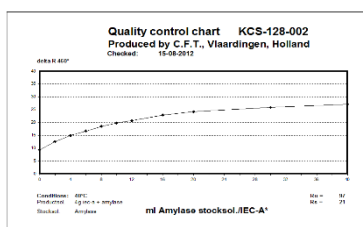
## C-S-128

Discriminative Power<sup>2</sup>: **6,9**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **37,4**



## KC-S-128

Discriminative Power<sup>2</sup>: **7,1**  
 Reproducibility Ratio: **7,5**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **45,3**



# C-S-129 Tapioca starch, coloured, aged



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase. Aged, so more difficult to clean.

Aged at elevated temperature.

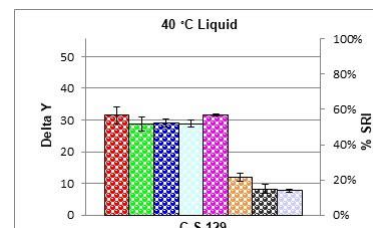
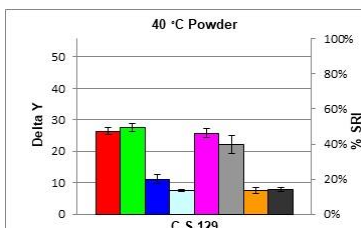
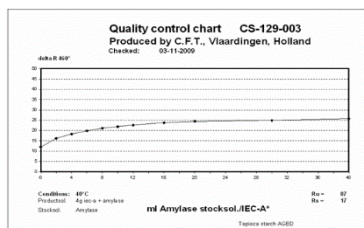


Order code:	Substrate:	Width:	Yu:
C-S-129	Cotton (T-400)	90 cm	88,9
KC-S-129	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-129	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-129	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-129	PolyAcryl (PAN-01)	45 cm	89,3
S-S-129	Silk (T-601)	45 cm	83,9
W-S-129	Wool (T-541)	45 cm	67,2
N-S-129	Nylon (T-365)	45 cm	87,4

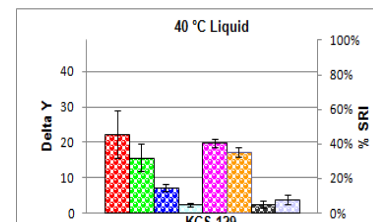
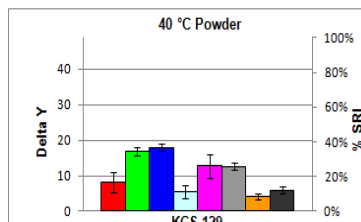
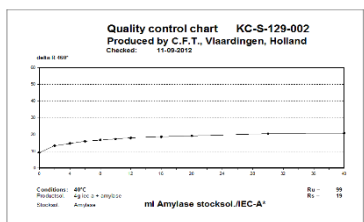
## C-S-129

Discriminative Power<sup>2</sup>: **7,1**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **43,5**



## KC-S-129

Discriminative Power<sup>2</sup>: **7,0**  
 Reproducibility Ratio: **7,4**  
 Reliability Ratio: **7,7**  
 Dynamic Range: **41,6**



# C-S-226 Rice starch, coloured, double soil load, aged



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase. Double soil load, so more difficult to clean.

Aged at elevated temperature.

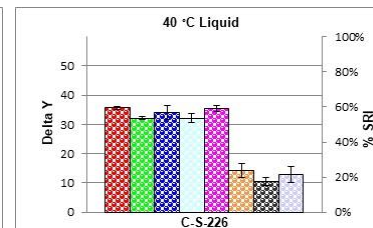
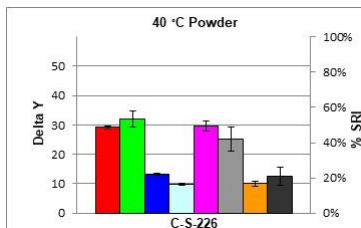
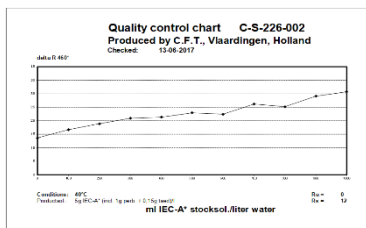


Order code:	Substrate:	Width:	Yu:
C-S-226	Cotton (T-400)	90 cm	88,9
KC-S-226	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-226	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-226	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-226	PolyAcryl (PAN-01)	45 cm	89,3
S-S-226	Silk (T-601)	45 cm	83,9
W-S-226	Wool (T-541)	45 cm	67,2
N-S-226	Nylon (T-365)	45 cm	87,4

## C-S-226

Discriminative Power<sup>2</sup>: **7,8**  
 Reproducibility Ratio: **7,9**  
 Reliability Ratio: **8,6**  
 Dynamic Range: **43,1**



## KC-S-226

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**

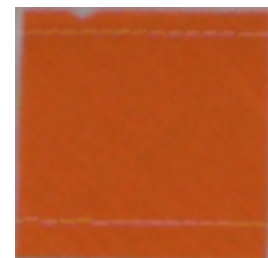
Graphs unavailable

# C-S-227 Tapioca starch, coloured, double soil load, aged



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase. Double soil load, so more difficult to clean.

Aged at elevated temperature.

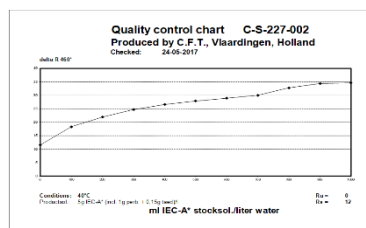


Order code:	Substrate:	Width:	Yu:
C-S-227	Cotton (T-400)	90 cm	88,9
KC-S-227	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-227	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-227	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-227	PolyAcryl (PAN-01)	45 cm	89,3
S-S-227	Silk (T-601)	45 cm	83,9
W-S-227	Wool (T-541)	45 cm	67,2
N-S-227	Nylon (T-365)	45 cm	87,4

## C-S-227

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**



Graphs unavailable

## KC-S-227

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**

Graphs unavailable

# C-S-228 Rice starch, coloured, double soil load



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase. Double soil load, so more difficult to clean.

Aged at elevated temperature.

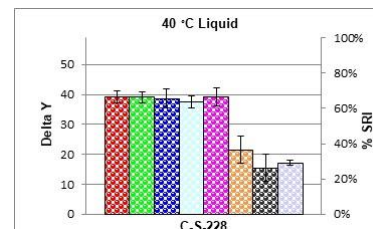
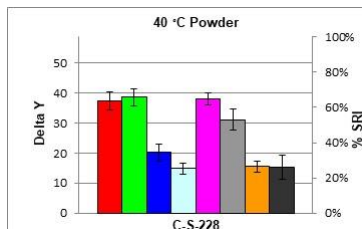
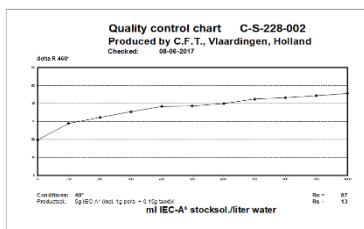


Order code:	Substrate:	Width:	Yu:
C-S-228	Cotton (T-400)	90 cm	88,9
KC-S-228	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-228	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-228	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-228	PolyAcryl (PAN-01)	45 cm	89,3
S-S-228	Silk (T-601)	45 cm	83,9
W-S-228	Wool (T-541)	45 cm	67,2
N-S-228	Nylon (T-365)	45 cm	87,4

## C-S-228

Discriminative Power<sup>2</sup>: **8,0**  
 Reproducibility Ratio: **6,3**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **43,1**



## KC-S-228

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**

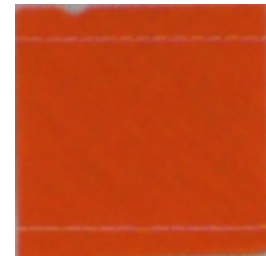
Graphs unavailable

# C-S-229 Tapioca starch, coloured, double soil load



Very well performing starch stain. Especially suitable for measuring the effectiveness of amylase. Double soil load, so more difficult to clean.

Aged at elevated temperature.

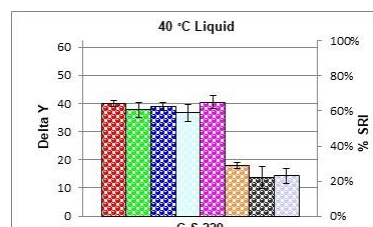
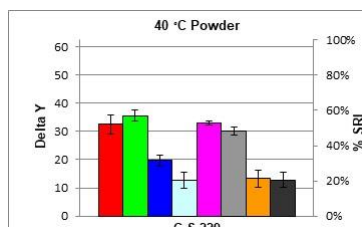
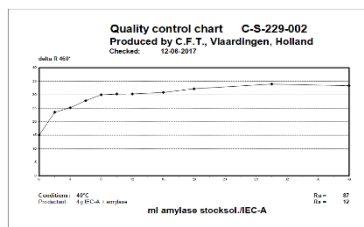


Order code:	Substrate:	Width:	Yu:
C-S-229	Cotton (T-400)	90 cm	88,9
KC-S-229	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-229	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-229	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-229	PolyAcryl (PAN-01)	45 cm	89,3
S-S-229	Silk (T-601)	45 cm	83,9
W-S-229	Wool (T-541)	45 cm	67,2
N-S-229	Nylon (T-365)	45 cm	87,4

## C-S-229

Discriminative Power<sup>2</sup>: **7,9**  
 Reproducibility Ratio: **7,0**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **44,9**



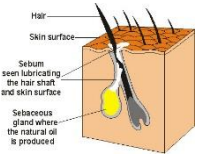
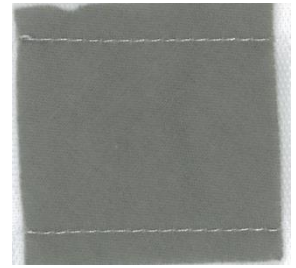
## KC-S-229

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**

Graphs unavailable

# C-S-32

## Sebum BEY with carbon black



Most commonly used synthetic skin fat. To simulate the removal of human skin fat, using active systems and lipase systems.

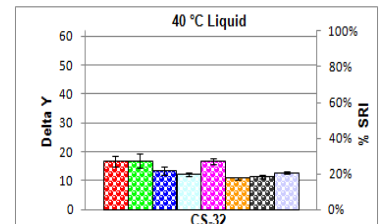
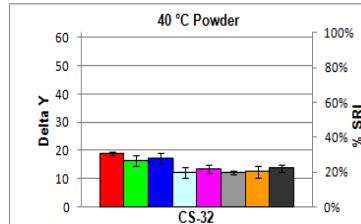
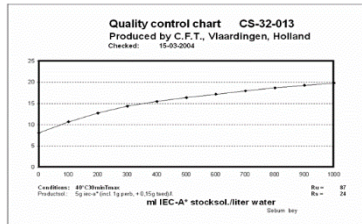
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-32	Cotton (CN-17)	90 cm	87,7
KC-S-32	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-32	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-32	Polyester (W-30 A)	90 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-S-32	PolyAcryl (PAN-01)	45 cm	89,3
S-S-32	Silk (T-601)	45 cm	83,9
W-S-32	Wool (T-541)	45 cm	67,2
N-S-32	Nylon (T-365)	45 cm	87,4

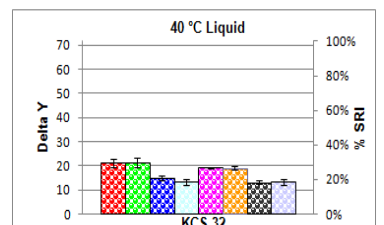
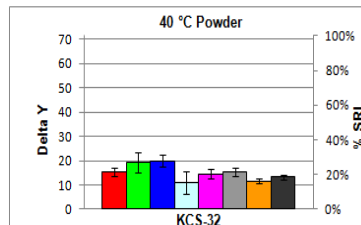
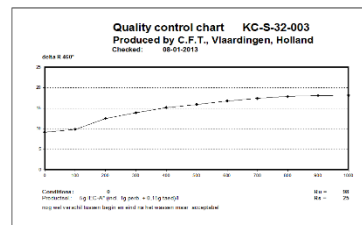
### C-S-32

Discriminative Power<sup>2</sup>: **5,6**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **15,3**



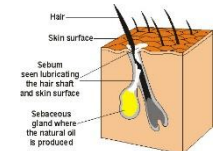
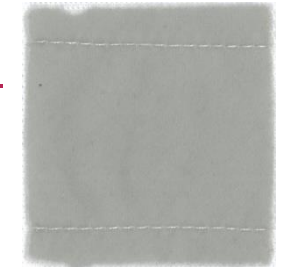
### KC-S-32

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **7,8**  
 Reliability Ratio: **8,2**  
 Dynamic Range: **15,6**



# C-S-132

## High discriminative sebum BEY with pigment



Most commonly used synthetic skin fat. Improved version of C-S-32. To simulate the removal of human skin fat, using active systems and lipase systems.

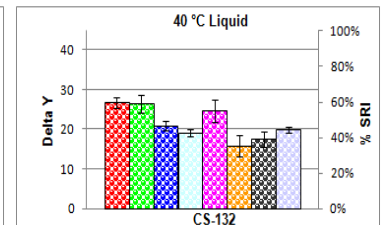
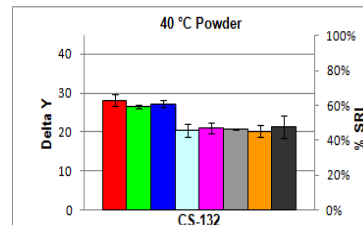
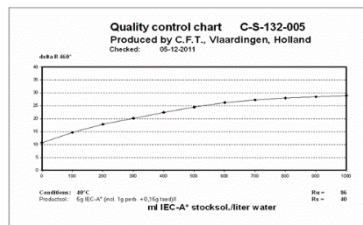
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-132	Cotton (T-400)	45 cm	88,9
KC-S-132	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-132	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-132	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-132	PolyAcryl (PAN-01)	45 cm	89,3
S-S-132	Silk (T-601)	45 cm	83,9
W-S-132	Wool (T-541)	45 cm	67,2
N-S-132	Nylon (T-365)	45 cm	87,4

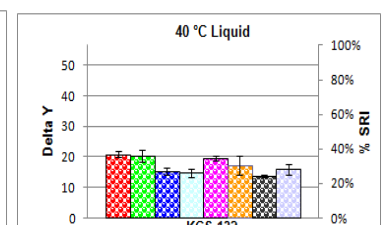
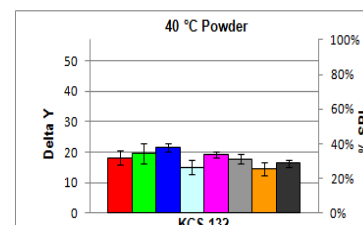
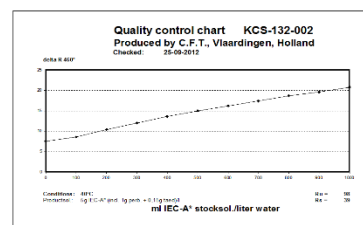
### C-S-132

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,0**  
 Dynamic Range: **33,3**



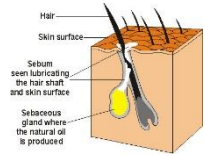
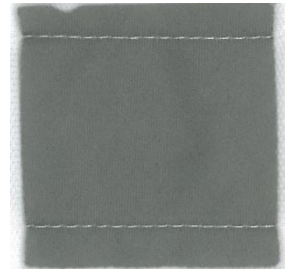
### KC-S-132

Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **8,8**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **17,3**



# C-S-33

## Sebum TEFO with carbon black



To simulate the removal of human skin fat, using active systems and lipase enzymes.

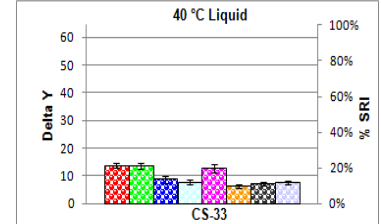
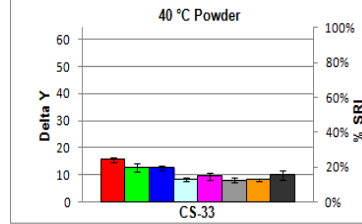
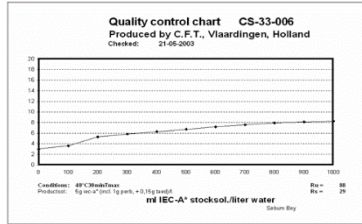
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-33	Cotton (CN-11)	45 cm	89,1
KC-S-33	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-33	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-33	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-33	PolyAcryl (PAN-01)	45 cm	89,3
S-S-33	Silk (T-601)	45 cm	83,9
W-S-33	Wool (T-541)	45 cm	67,2
N-S-33	Nylon (T-365)	45 cm	87,4

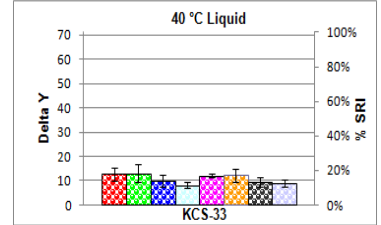
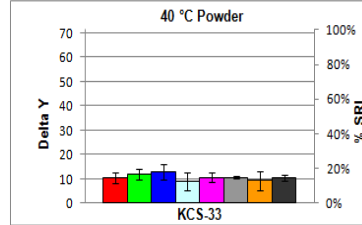
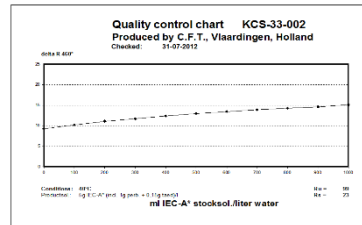
### C-S-33

Discriminative Power<sup>2</sup>: **5,8**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **15,4**



### KC-S-33

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **7,3**  
 Reliability Ratio: **7,7**  
 Dynamic Range: **8,9**



# C-S-34

## Curry



You can use this to study the removal of a realistic curry stain. Part of the soil will be removed by the basic detergent. The remaining part requires a good bleaching agent.

Not aged at elevated temperature.

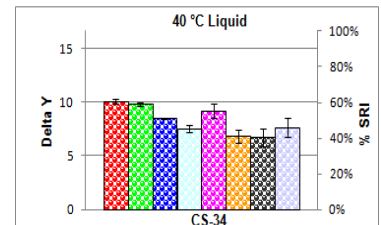
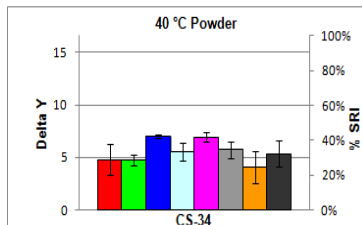
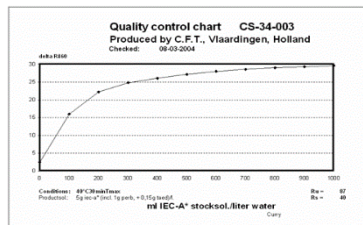


Order code:	Substrate:	Width:	Yu:
C-S-34	Cotton (CN-11)	90 cm	89,1
KC-S-34	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-34	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-34	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-34	PolyAcryl (PAN-01)	45 cm	89,3
S-S-34	Silk (T-601)	45 cm	83,9
W-S-34	Wool (T-541)	45 cm	67,2
N-S-34	Nylon (T-365)	45 cm	87,4

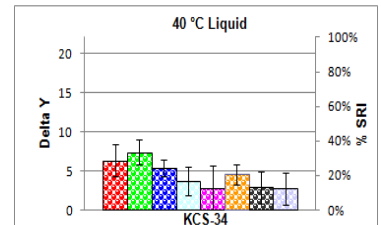
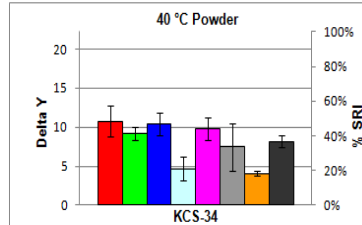
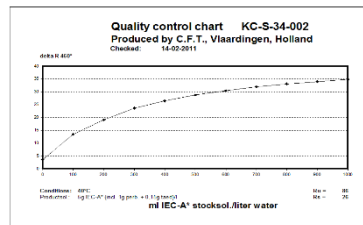
### C-S-34

Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **9,7**  
 Reliability Ratio: **9,7**  
 Dynamic Range: **35,4**



### KC-S-34

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **38,9**



# C-S-35

Egg yolk, aged



This product contains egg yolk, which is very suitable to measure proteolytic enzyme activity. This product can also be used to measure the overall enzyme activity during wash.

Aged at elevated temperature.

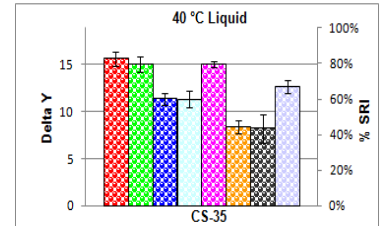
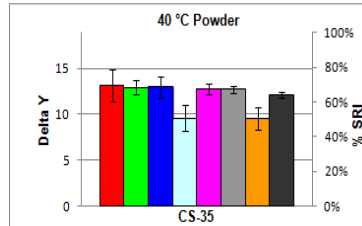
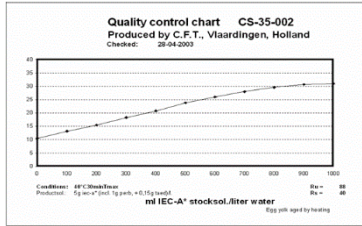


Order code:	Substrate:	Width:	Yu:
C-S-35	Cotton (CN-01)	90 cm	90,0
KC-S-35	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-35	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-35	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-35	PolyAcryl (PAN-01)	45 cm	89,3
S-S-35	Silk (T-601)	45 cm	83,9
W-S-35	Wool (T-541)	45 cm	67,2
N-S-35	Nylon (T-365)	45 cm	87,4

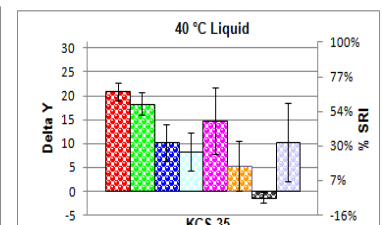
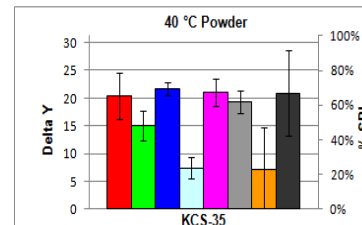
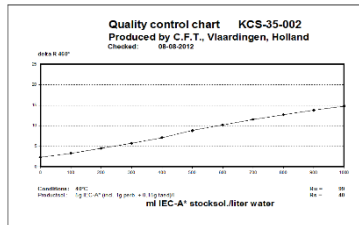
## C-S-35

Discriminative Power<sup>2</sup>: **5,6**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,6**  
 Dynamic Range: **43,8**



## KC-S-35

Discriminative Power<sup>2</sup>: **7,0**  
 Reproducibility Ratio: **8,2**  
 Reliability Ratio: **8,3**  
 Dynamic Range: **74,3**



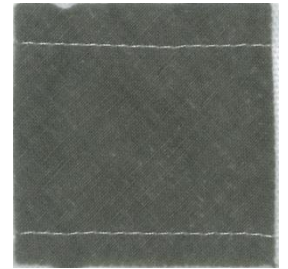
# C-S-36

Egg yolk with carbon black



This product contains egg yolk, which is very suitable to measure proteolytic enzyme activity. This product can also be used to measure the overall enzyme activity during wash.

Not aged at elevated temperature.

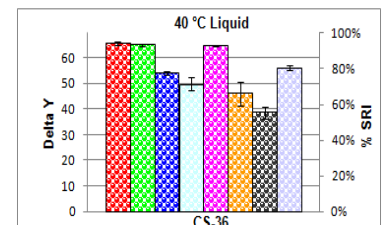
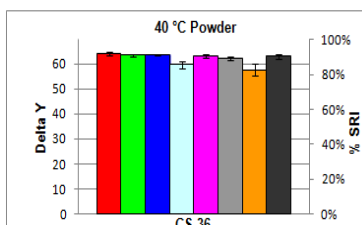
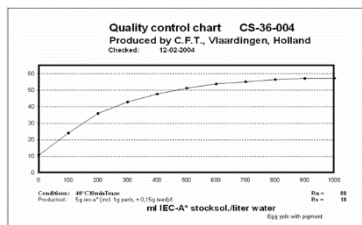


Order code:	Substrate:	Width:	Yu:
C-S-36	Cotton (CN-11)	45 cm	89,1
KC-S-36	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-36	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-36	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-36	PolyAcryl (PAN-01)	45 cm	89,3
S-S-36	Silk (T-601)	45 cm	83,9
W-S-36	Wool (T-541)	45 cm	67,2
N-S-36	Nylon (T-365)	45 cm	87,4

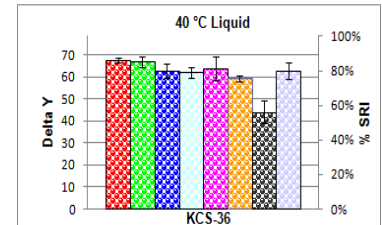
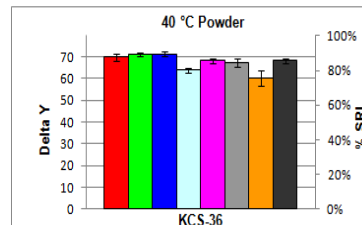
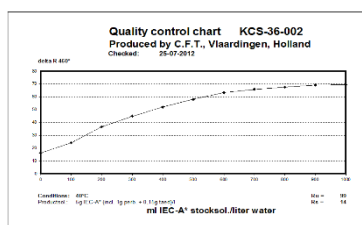
## C-S-36

Discriminative Power<sup>2</sup>: **6,9**  
 Reproducibility Ratio: **8,9**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **43,1**



## KC-S-36

Discriminative Power<sup>2</sup>: **6,6**  
 Reproducibility Ratio: **3,0**  
 Reliability Ratio: **8,6**  
 Dynamic Range: **31,3**



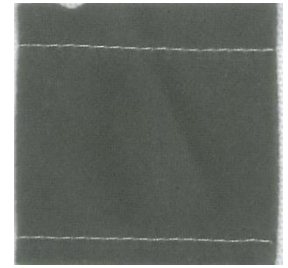


# C-S-37

## Full egg with carbon black



This product contains egg yolk and egg white, which are very suitable to measure proteolytic enzyme activity. This product can also be used to measure the overall enzyme activity during wash. Not aged at elevated temperature.

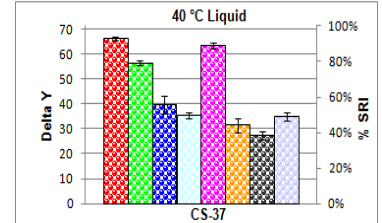
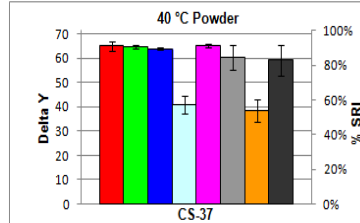
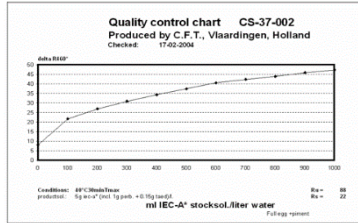


Order code:	Substrate:	Width:	Yu:
C-S-37	Cotton (CN-11)	45 cm	89,1
KC-S-37	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-37	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-37	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-37	PolyAcryl (PAN-01)	45 cm	89,3
S-S-37	Silk (T-601)	45 cm	83,9
W-S-37	Wool (T-541)	45 cm	67,2
N-S-37	Nylon (T-365)	45 cm	87,4

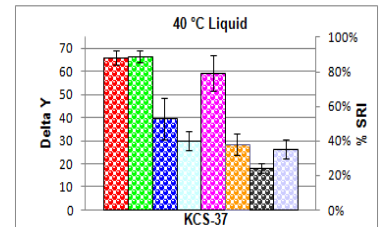
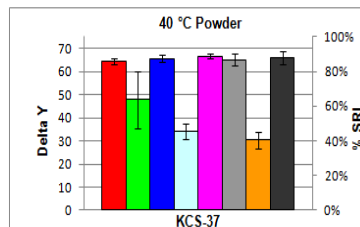
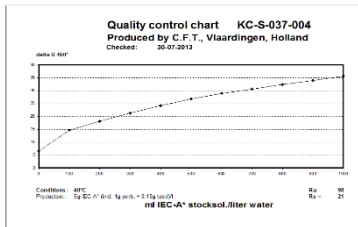
### C-S-37

Discriminative Power<sup>2</sup>: **8,5**  
 Reproducibility Ratio: **7,9**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **57,7**



### KC-S-37

Discriminative Power<sup>2</sup>: **9,3**  
 Reproducibility Ratio: **6,1**  
 Reliability Ratio: **7,5**  
 Dynamic Range: **64,2**



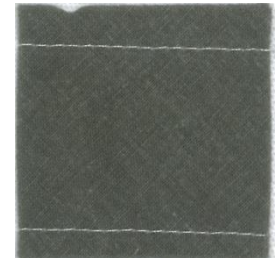
# C-S-38

## Egg yolk with carbon black, aged



This product contains egg yolk, which is very suitable to measure proteolytic enzyme activity. The aging process makes the soil more difficult to remove.

Aged at elevated temperature.

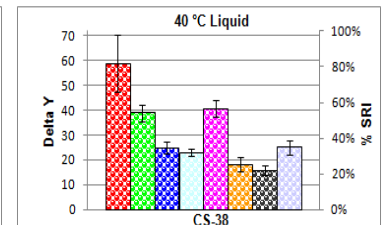
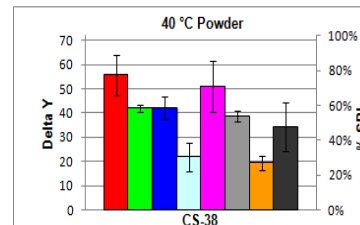
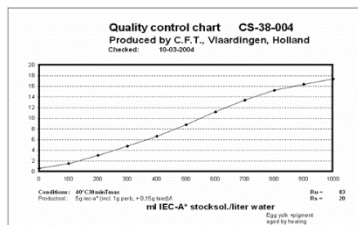


Order code:	Substrate:	Width:	Yu:
C-S-38	Cotton (CN-11)	45 cm	89,1
KC-S-38	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-38	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-38	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-38	PolyAcryl (PAN-01)	45 cm	89,3
S-S-38	Silk (T-601)	45 cm	83,9
W-S-38	Wool (T-541)	45 cm	67,2
N-S-38	Nylon (T-365)	45 cm	87,4

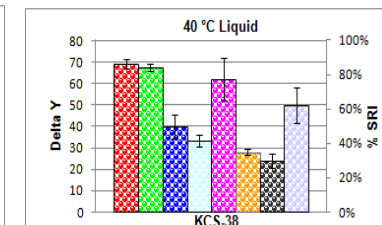
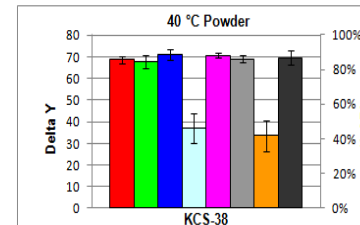
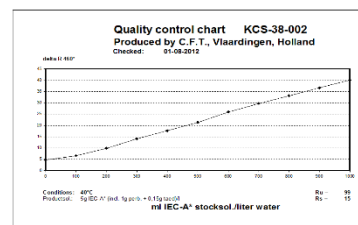
### C-S-38

Discriminative Power<sup>2</sup>: **8,4**  
 Reproducibility Ratio: **8,7**  
 Reliability Ratio: **6,2**  
 Dynamic Range: **64,3**



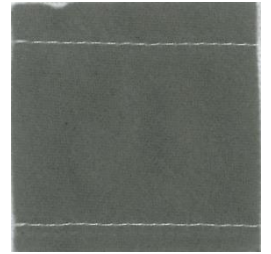
### KC-S-38

Discriminative Power<sup>2</sup>: **9,1**  
 Reproducibility Ratio: **7,0**  
 Reliability Ratio: **7,2**  
 Dynamic Range: **59,8**



# C-S-39

Full egg with carbon black, aged



This product contains egg yolk and egg white, which are very suitable to measure proteolytic enzyme activity. The aging process makes the soil more difficult to remove.

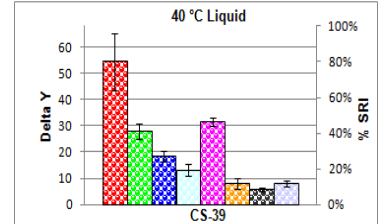
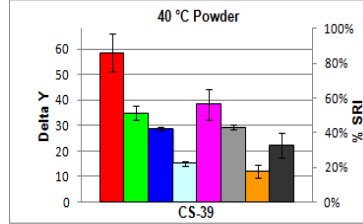
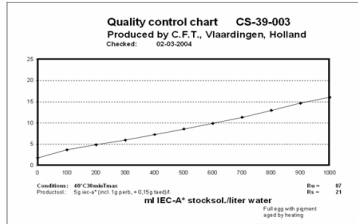
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-39	Cotton (CN-11)	45 cm	89,1
KC-S-39	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-39	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-39	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-39	PolyAcryl (PAN-01)	45 cm	89,3
S-S-39	Silk (T-601)	45 cm	83,9
W-S-39	Wool (T-541)	45 cm	67,2
N-S-39	Nylon (T-365)	45 cm	87,4

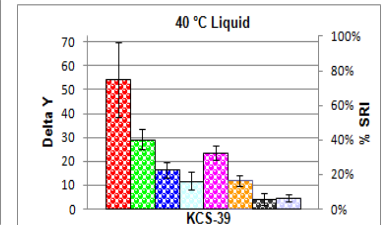
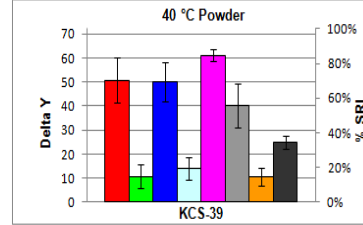
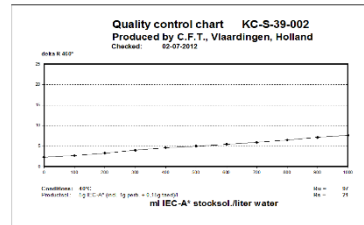
## C-S-39

Discriminative Power<sup>2</sup>: **8,6**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **7,5**  
 Dynamic Range: **77,0**



## KC-S-39

Discriminative Power<sup>2</sup>: **9,0**  
 Reproducibility Ratio: **6,9**  
 Reliability Ratio: **5,2**  
 Dynamic Range: **78,3**



# C-S-40

Yellow modelling clay



Especially suitable to study particle removal in dry cleaning processes.

Not aged at elevated temperature.

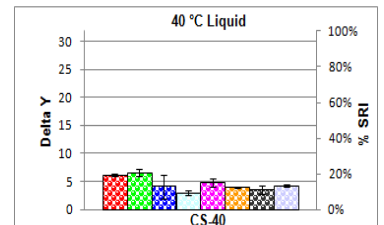
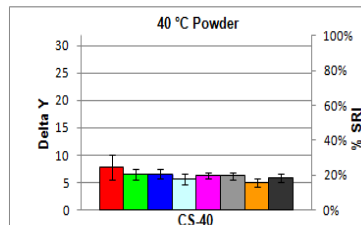
Order code:	Substrate:	Width:	Yu:
C-S-40	Cotton (CN-11)	45 cm	89,1
KC-S-40	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-40	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-40	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-40	PolyAcryl (PAN-01)	45 cm	89,3
S-S-40	Silk (T-601)	45 cm	83,9
W-S-40	Wool (T-541)	45 cm	67,2
N-S-40	Nylon (T-365)	45 cm	87,4

## C-S-40

Discriminative Power<sup>2</sup>: **4,8**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **15,2**

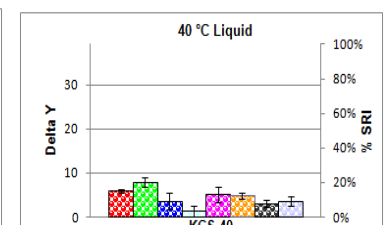
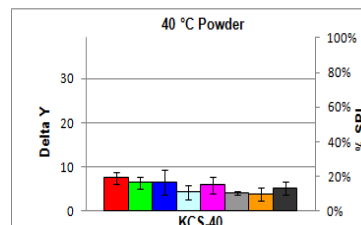
Graph unavailable



## KC-S-40

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,0**  
 Dynamic Range: **17,4**

Graph unavailable



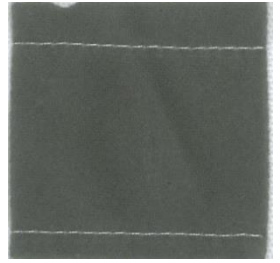
# C-S-41

Black laboratory clay



Especially suitable to study particle removal in dry cleaning processes.

Not aged at elevated temperature.

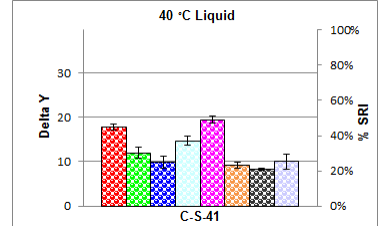
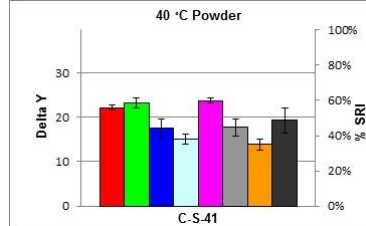
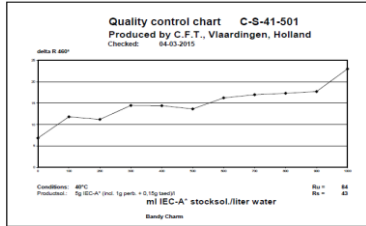


Order code:	Substrate:	Width:	Yu:
C-S-41	Cotton (CN-17)	45 cm	87,7
KC-S-41	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-41	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-41	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-41	PolyAcryl (PAN-01)	45 cm	89,3
S-S-41	Silk (T-601)	45 cm	83,9
W-S-41	Wool (T-541)	45 cm	67,2
N-S-41	Nylon (T-365)	45 cm	87,4

## C-S-41

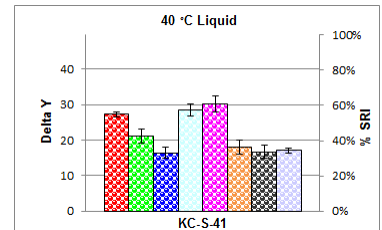
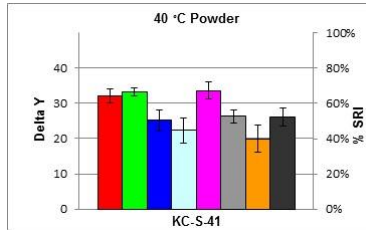
Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **9,7**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **40,5**



## KC-S-41

Discriminative Power<sup>2</sup>: **6,6**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **35,8**

Graph  
unavailable



# C-S-42

Standard clay



Especially suitable to study particle removal in dry cleaning processes.

Not aged at elevated temperature.



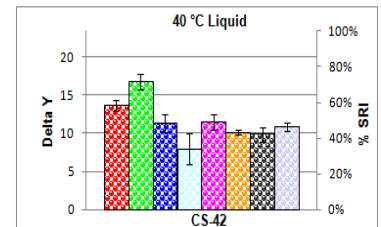
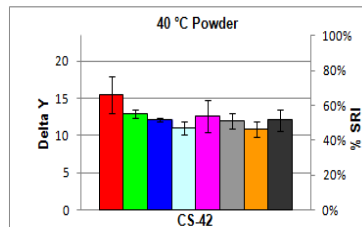
Order code:	Substrate:	Width:	Yu:
C-S-42	Cotton (CN-17)	45 cm	87,7
KC-S-42	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-42	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-42	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-42	PolyAcryl (PAN-01)	45 cm	89,3
S-S-42	Silk (T-601)	45 cm	83,9
W-S-42	Wool (T-541)	45 cm	67,2
N-S-42	Nylon (T-365)	45 cm	87,4

## C-S-42

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **37,8**

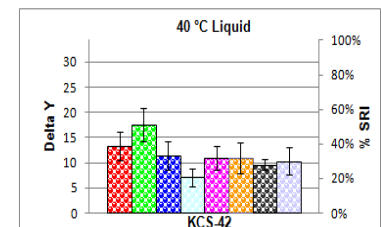
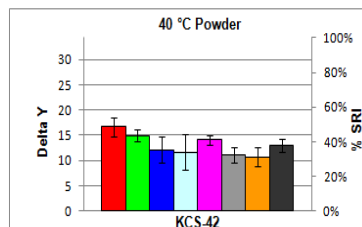
Graph  
unavailable



## KC-S-42

Discriminative Power<sup>2</sup>: **5,8**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **32,2**

Graph  
unavailable



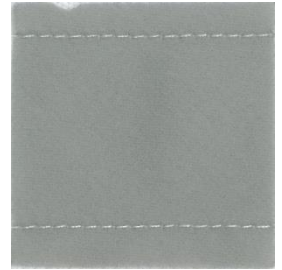
# C-S-43

## Guar gum with carbon black



Used to demonstrate and to study the effect of mannanase enzymes.

Not aged at elevated temperature.



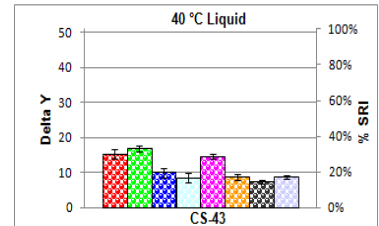
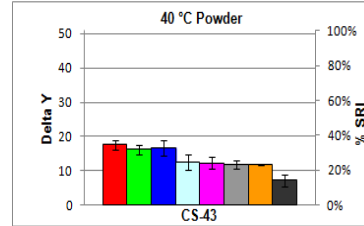
Order code:	Substrate:	Width:	Yu:
C-S-43	Cotton (CN-11)	45 cm	89,1
KC-S-43	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-43	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-43	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-43	PolyAcryl (PAN-01)	45 cm	89,3
S-S-43	Silk (T-601)	45 cm	83,9
W-S-43	Wool (T-541)	45 cm	67,2
N-S-43	Nylon (T-365)	45 cm	87,4

### C-S-43

Discriminative Power<sup>2</sup>: **6,1**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **21,4**

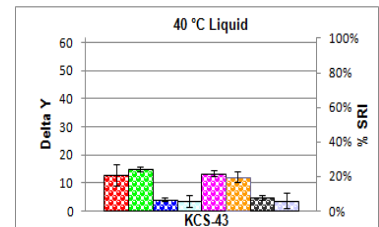
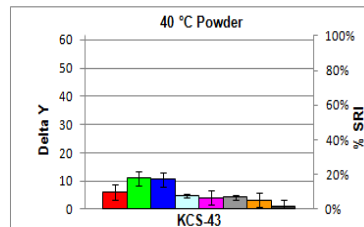
Graph  
unavailable



### KC-S-43

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **8,8**  
 Reliability Ratio: **8,0**  
 Dynamic Range: **22,9**

Graph  
unavailable



# C-S-44

## Chocolate drink, pure



For measuring overall detergency including a slight response to proteolytic enzymes.

Aged at elevated temperature.

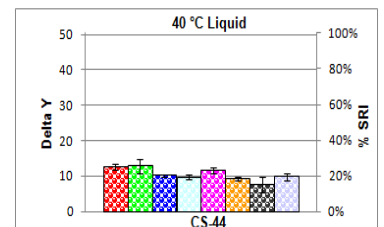
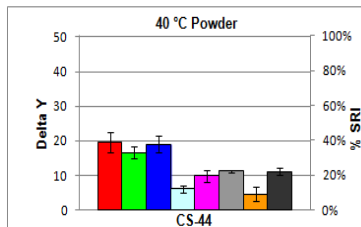
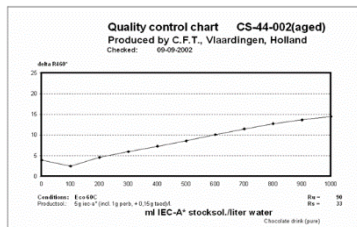


Order code:	Substrate:	Width:	Yu:
C-S-44	Cotton (CN-11)	90 cm	89,9
KC-S-44	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-44	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-44	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-44	PolyAcryl (PAN-01)	45 cm	89,3
S-S-44	Silk (T-601)	45 cm	83,9
W-S-44	Wool (T-541)	45 cm	67,2
N-S-44	Nylon (T-365)	45 cm	87,4

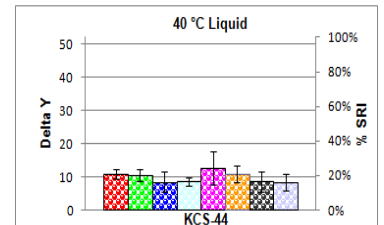
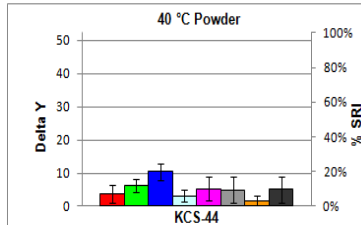
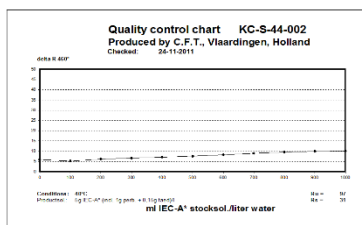
### C-S-44

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **30,4**



### KC-S-44

Discriminative Power<sup>2</sup>: **5,5**  
 Reproducibility Ratio: **7,9**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **20,8**



# C-S-144 Chocolate drink, pure, not aged



For measuring overall detergency including a slight response to proteolytic enzymes.

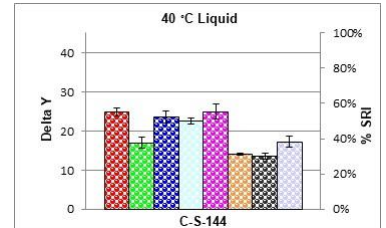
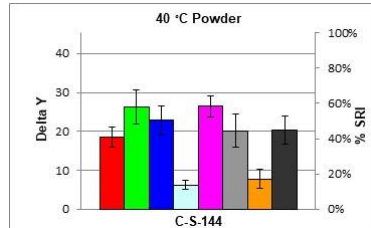
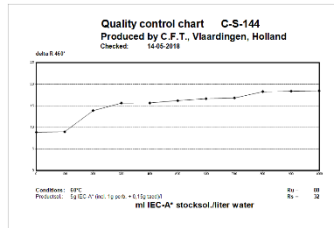
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-144	Cotton (CN-11)	90 cm	89,9
KC-S-144	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-144	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-144	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-144	PolyAcryl (PAN-01)	45 cm	89,3
S-S-144	Silk (T-601)	45 cm	83,9
W-S-144	Wool (T-541)	45 cm	67,2
N-S-144	Nylon (T-365)	45 cm	87,4

## C-S-144

Discriminative Power<sup>2</sup>: **6,8**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **8,4**  
 Dynamic Range: **44,6**



## KC-S-144

Discriminative Power<sup>2</sup>: **n/a**  
 Reproducibility Ratio: **n/a**  
 Reliability Ratio: **n/a**  
 Dynamic Range: **n/a**

Graphs unavailable

# C-S-45 Chocolate soymilk drink, aged



For measuring the removal of soy based drinks and the effect of proteolytic enzymes.

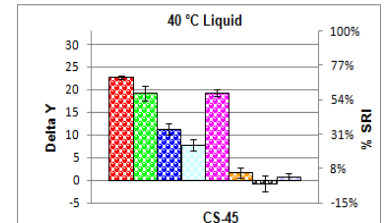
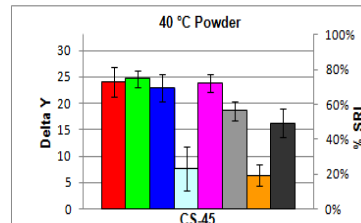
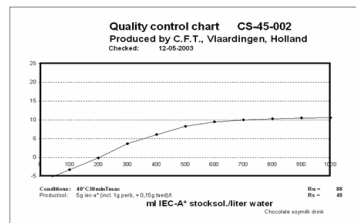
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-145	Cotton (CN-11)	45 cm	89,1
KC-S-145	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-145	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-145	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-145	PolyAcryl (PAN-01)	45 cm	89,3
S-S-145	Silk (T-601)	45 cm	83,9
W-S-145	Wool (T-541)	45 cm	67,2
N-S-145	Nylon (T-365)	45 cm	87,4

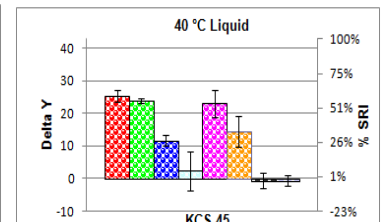
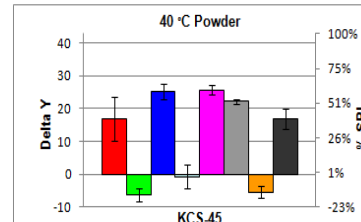
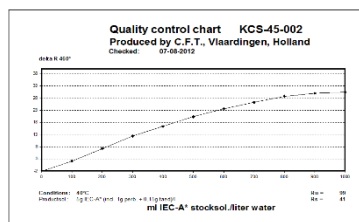
## C-S-45

Discriminative Power<sup>2</sup>: **7,5**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **78,1**



## KC-S-45

Discriminative Power<sup>2</sup>: **8,3**  
 Reproducibility Ratio: **8,8**  
 Reliability Ratio: **8,0**  
 Dynamic Range: **74,5**



# C-S-145 Chocolate soymilk drink



For measuring the removal of soy based drinks and the effect of proteolytic enzymes.

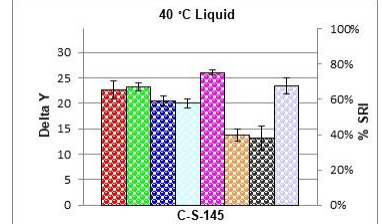
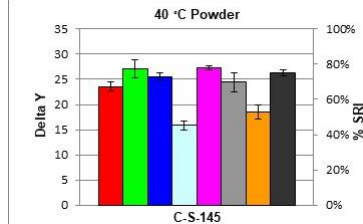
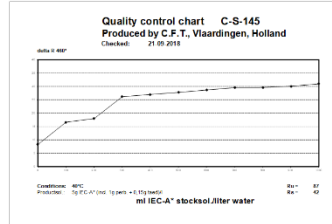
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-145	Cotton (CN-11)	45 cm	89,1
KC-S-145	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-145	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-145	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-145	PolyAcryl (PAN-01)	45 cm	89,3
S-S-145	Silk (T-601)	45 cm	83,9
W-S-145	Wool (T-541)	45 cm	67,2
N-S-145	Nylon (T-365)	45 cm	87,4

## C-S-145

Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **9,7**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **39,9**



## KC-S-145

Discriminative Power<sup>2</sup>: **n/a**  
 Reproducibility Ratio: **n/a**  
 Reliability Ratio: **n/a**  
 Dynamic Range: **n/a**

Graphs unavailable

# C-S-46 Frying fat, used



Fatty stains are always a challenge, especially with the more commonly used low temperatures. No colourant is added since the fat is darkened by usage.

Not aged at elevated temperature.

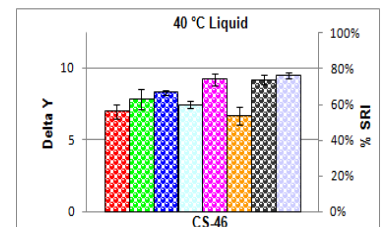
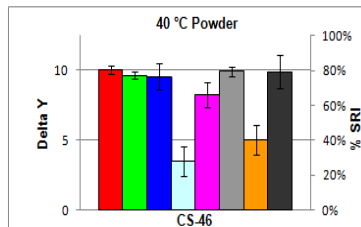
Order code:	Substrate:	Width:	Yu:
C-S-46	Cotton (CN-17)	45 cm	87,7
KC-S-46	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-46	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-46	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-46	PolyAcryl (PAN-01)	45 cm	89,3
S-S-46	Silk (T-601)	45 cm	83,9
W-S-46	Wool (T-541)	45 cm	67,2
N-S-46	Nylon (T-365)	45 cm	87,4

## C-S-46

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,7**  
 Dynamic Range: **56,2**

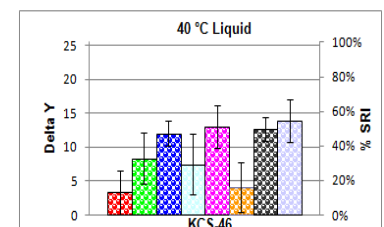
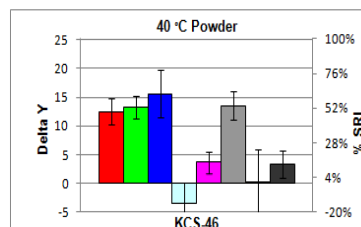
Graph unavailable



## KC-S-46

Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **8,3**  
 Dynamic Range: **78,7**

Graph unavailable



# C-S-46B Frying fat, used, coloured with violet dye



Fatty stains are always a challenge, especially with the more commonly used low temperatures. A violet oil soluble dye is added to make the stain more discriminative. Reacts to lipase enzymes. Not aged at elevated temperature.

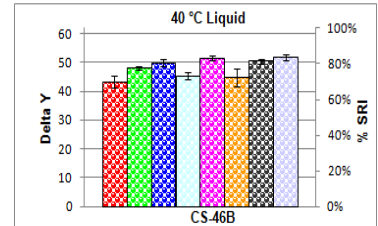
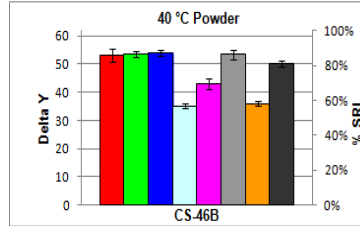
Order code:	Substrate:	Width:	Yu:
C-S-46B	Cotton (CN-17)	45 cm	87,7
KC-S-46B	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-46B	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-46B	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-46B	PolyAcryl (PAN-01)	45 cm	89,3
S-S-46B	Silk (T-601)	45 cm	83,9
W-S-46B	Wool (T-541)	45 cm	67,2
N-S-46B	Nylon (T-365)	45 cm	87,4

## C-S-46B

Discriminative Power<sup>2</sup>: **6,8**  
 Reproducibility Ratio: **7,5**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **34,9**

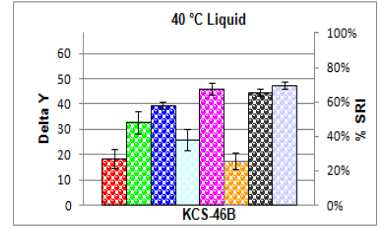
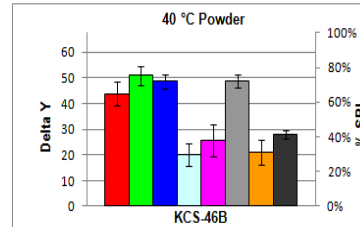
Graph unavailable



## KC-S-46B

Discriminative Power<sup>2</sup>: **7,8**  
 Reproducibility Ratio: **6,0**  
 Reliability Ratio: **7,3**  
 Dynamic Range: **52,2**

Graph unavailable



# C-S-47 Tea, aged



Demonstrates tea stain removal including the effect of bleaching.

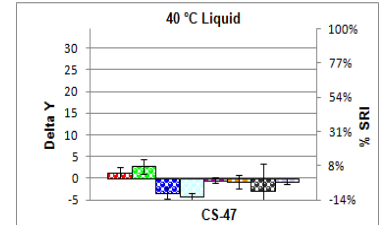
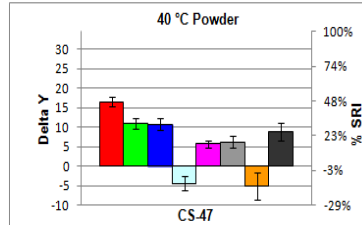
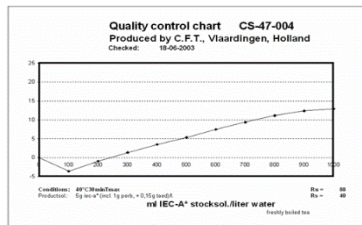
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-47	Cotton (CN-11)	45 cm	89,1
KC-S-47	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-47	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-47	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-47	PolyAcryl (PAN-01)	45 cm	89,3
S-S-47	Silk (T-601)	45 cm	83,9
W-S-47	Wool (T-541)	45 cm	67,2
N-S-47	Nylon (T-365)	45 cm	87,4

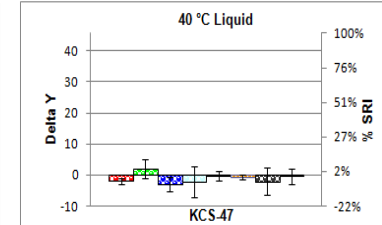
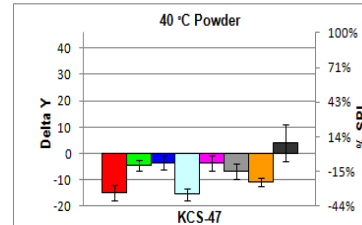
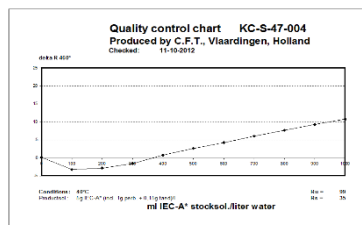
## C-S-47

Discriminative Power<sup>2</sup>: **6,5**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **76,0**



## KC-S-47

Discriminative Power<sup>2</sup>: **6,1**  
 Reproducibility Ratio: **8,4**  
 Reliability Ratio: **7,5**  
 Dynamic Range: **42,7**



# C-S-147 Tea



Demonstrates tea stain removal including the effect of bleaching.

Not aged at elevated temperature.



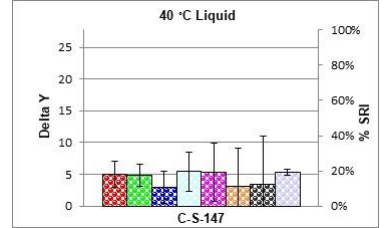
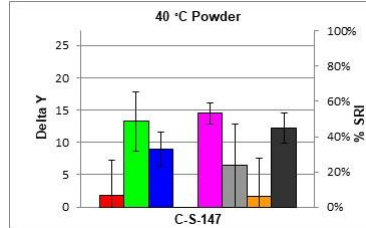
Order code:	Substrate:	Width:	Yu:
C-S-47	Cotton (CN-11)	45 cm	89,1
KC-S-47	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-47	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-47	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-47	PolyAcryl (PAN-01)	45 cm	89,3
S-S-47	Silk (T-601)	45 cm	83,9
W-S-47	Wool (T-541)	45 cm	67,2
N-S-47	Nylon (T-365)	45 cm	87,4

## C-S-147

Discriminative Power<sup>2</sup>: **5,9**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **72,0**

Graph  
unavailable



## KC-S-147

Discriminative Power<sup>2</sup>: **n/a**  
 Reproducibility Ratio: **n/a**  
 Reliability Ratio: **n/a**  
 Dynamic Range: **n/a**

Graphs unavailable

# C-S-48 Tea with milk, aged



Please note that we can prepare a soil mix with all kinds of tea. If you prefer a certain brand of tea, this is very much possible. We can also add milk to the soil, like in this mixture.

Aged at elevated temperature.

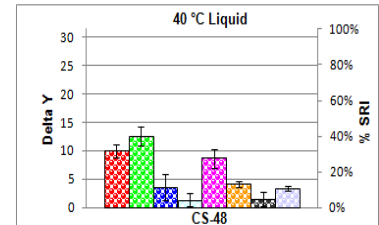
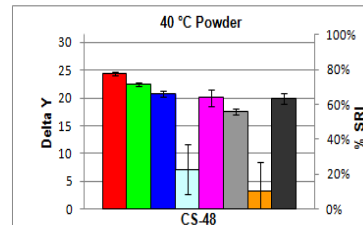
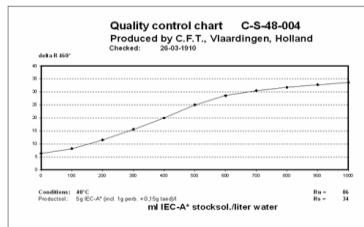


Order code:	Substrate:	Width:	Yu:
C-S-48	Cotton (CN-17)	45 cm	87,7
KC-S-48	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-48	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-48	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-48	PolyAcryl (PAN-01)	45 cm	89,3
S-S-48	Silk (T-601)	45 cm	83,9
W-S-48	Wool (T-541)	45 cm	67,2
N-S-48	Nylon (T-365)	45 cm	87,4

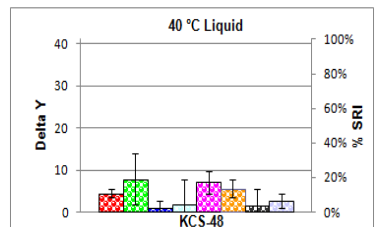
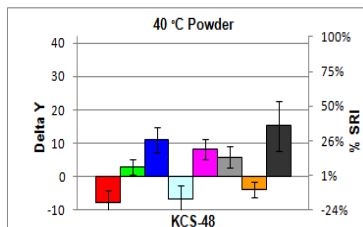
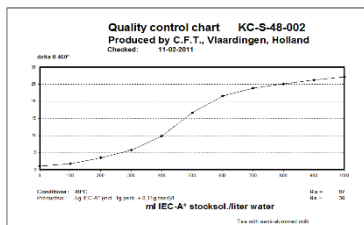
## C-S-48

Discriminative Power<sup>2</sup>: **6,8**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,0**  
 Dynamic Range: **83,4**



## KC-S-48

Discriminative Power<sup>2</sup>: **6,6**  
 Reproducibility Ratio: **7,9**  
 Reliability Ratio: **7,4**  
 Dynamic Range: **54,7**





# C-S-49

Coffee, black, aged



Demonstrates coffee stain removal including the effect of bleaching.

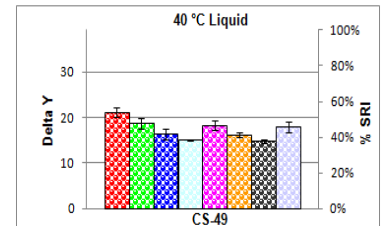
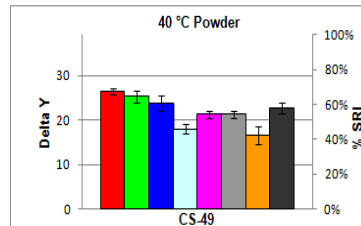
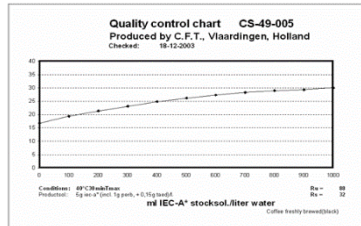
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-49	Cotton (CN-11)	45 cm	89,1
KC-S-49	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-49	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-49	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-49	PolyAcryl (PAN-01)	45 cm	89,3
S-S-49	Silk (T-601)	45 cm	83,9
W-S-49	Wool (T-541)	45 cm	67,2
N-S-49	Nylon (T-365)	45 cm	87,4

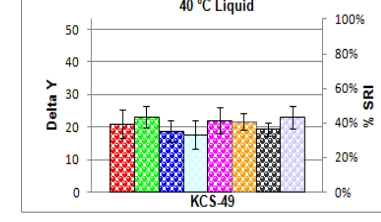
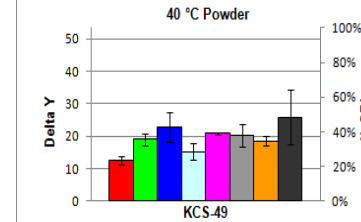
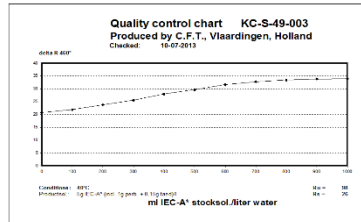
## C-S-49

Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **32,0**



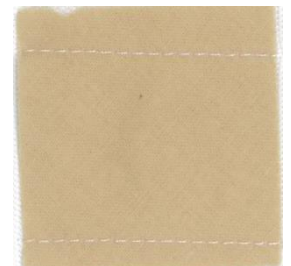
## KC-S-49

Discriminative Power<sup>2</sup>: **5,8**  
 Reproducibility Ratio: **8,0**  
 Reliability Ratio: **7,8**  
 Dynamic Range: **25,2**



# C-S-50

Coffee, black, espresso, aged



Demonstrates espresso coffee stain removal including the effect of bleaching.

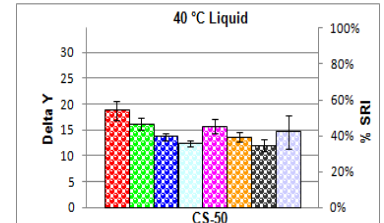
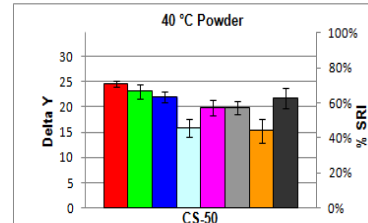
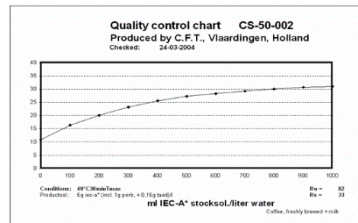
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-50	Cotton (CN-11)	45 cm	89,1
KC-S-50	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-50	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-50	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-50	PolyAcryl (PAN-01)	45 cm	89,3
S-S-50	Silk (T-601)	45 cm	83,9
W-S-50	Wool (T-541)	45 cm	67,2
N-S-50	Nylon (T-365)	45 cm	87,4

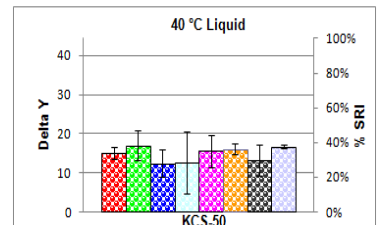
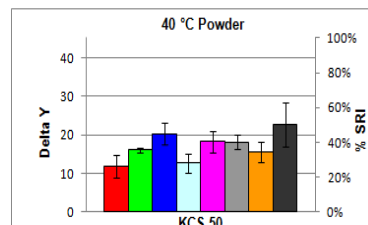
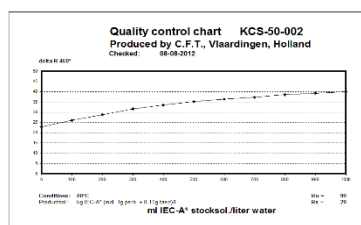
## C-S-50

Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **38,1**



## KC-S-50

Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **7,8**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **25,5**

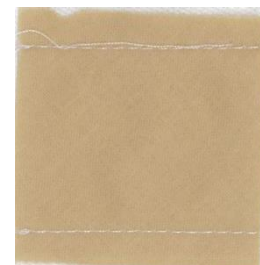


# C-S-51 Coffee with milk, aged



Demonstrates the effect of milk and proteolytic enzymes on the removal of coffee stains.

Aged at elevated temperature.

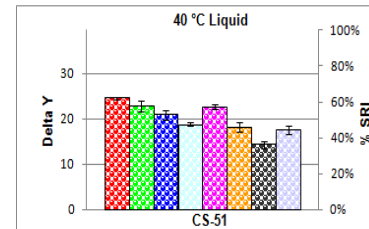
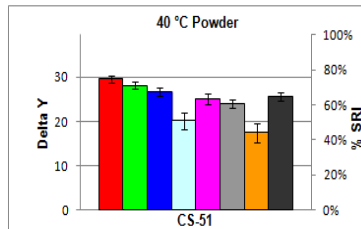
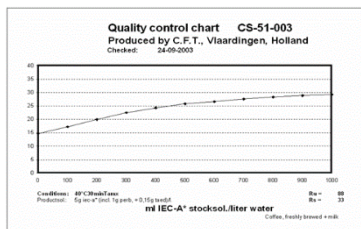


Order code:	Substrate:	Width:	Yu:
C-S-51	Cotton (CN-11)	45 cm	89,1
KC-S-51	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-51	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-51	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-51	PolyAcryl (PAN-01)	45 cm	89,3
S-S-51	Silk (T-601)	45 cm	83,9
W-S-51	Wool (T-541)	45 cm	67,2
N-S-51	Nylon (T-365)	45 cm	87,4

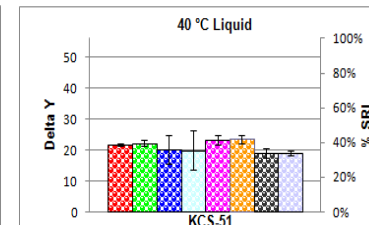
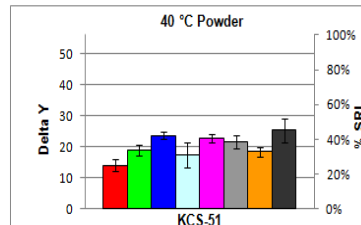
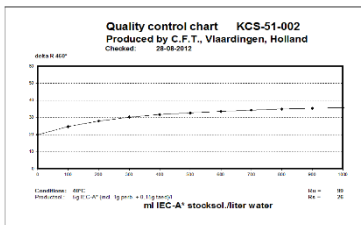
## C-S-51

Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **40,3**



## KC-S-51

Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **8,3**  
 Reliability Ratio: **8,3**  
 Dynamic Range: **19,6**

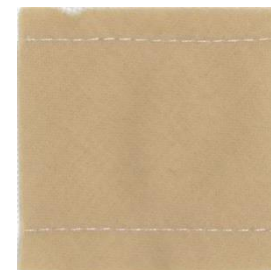


# C-S-52 Coffee with cream, aged



For measuring overall detergency including a slight response to proteolytic enzymes and enzyme cocktails including lipase.

Aged at elevated temperature.

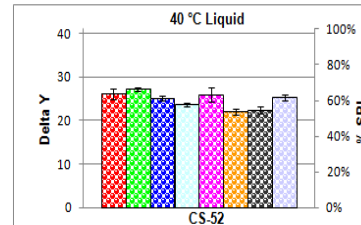
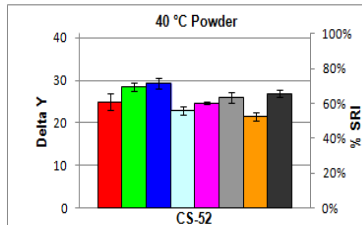
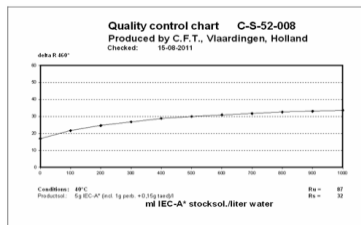


Order code:	Substrate:	Width:	Yu:
C-S-52	Cotton (CN-11)	45 cm	89,1
KC-S-52	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-52	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-52	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-52	PolyAcryl (PAN-01)	45 cm	89,3
S-S-52	Silk (T-601)	45 cm	83,9
W-S-52	Wool (T-541)	45 cm	67,2
N-S-52	Nylon (T-365)	45 cm	87,4

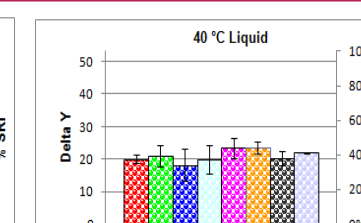
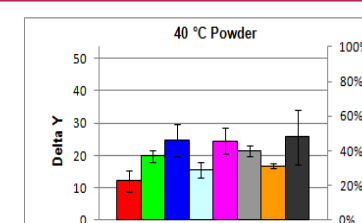
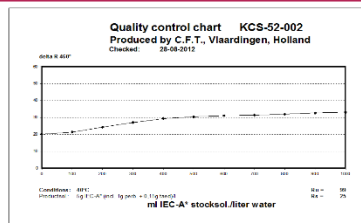
## C-S-52

Discriminative Power<sup>2</sup>: **5,6**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **20,9**



## KC-S-52

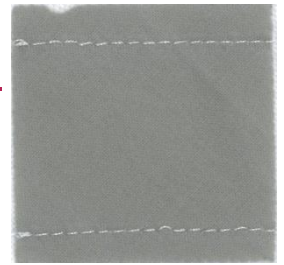
Discriminative Power<sup>2</sup>: **5,9**  
 Reproducibility Ratio: **8,0**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **25,2**



# C-S-53 Pectate with carbon black



A technical testmaterial especially designed to show pectinase enzyme effectivity. The pectate citrate is a very expensive component, CS-53B would be the more cost efficient alternative.  
Not aged at elevated temperature.

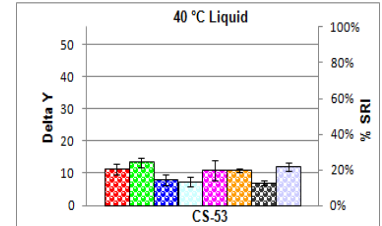
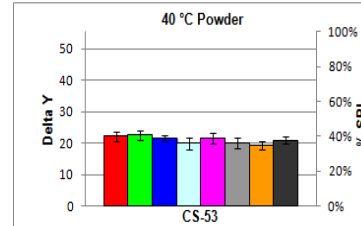
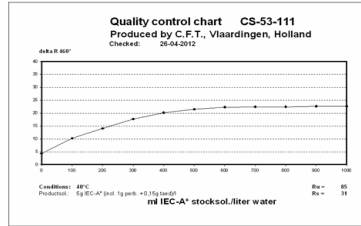


Order code:	Substrate:	Width:	Yu:
C-S-53	Cotton (CN-17)	45 cm	87,7
KC-S-53	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-53	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-53	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-53	PolyAcryl (PAN-01)	45 cm	89,3
S-S-53	Silk (T-601)	45 cm	83,9
W-S-53	Wool (T-541)	45 cm	67,2
N-S-53	Nylon (T-365)	45 cm	87,4

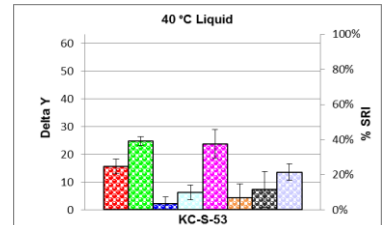
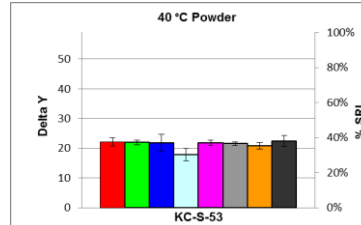
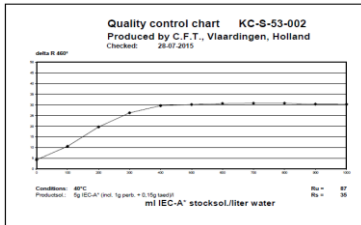
## C-S-53

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **28,9**



## KC-S-53

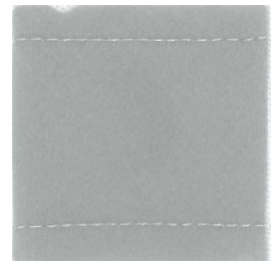
Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **8,3**  
 Dynamic Range: **38,2**



# C-S-53B Pectin with carbon black



A technical testmaterial especially designed to show pectinase enzyme effectivity. Made from consumer type pectin, used to create homemade jams.  
 Not aged at elevated temperature.

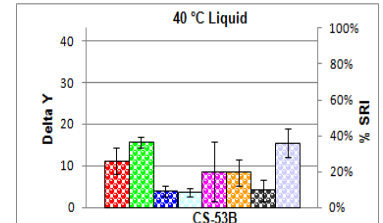
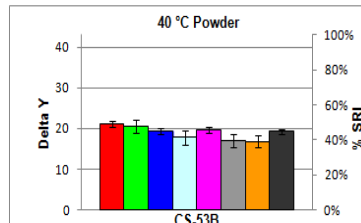
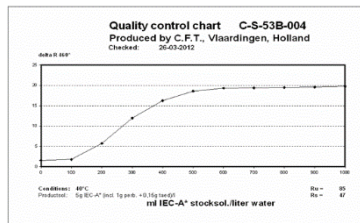


Order code:	Substrate:	Width:	Yu:
C-S-53B	Cotton (CN-17)	45 cm	87,7
KC-S-53B	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-53B	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-53B	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-53B	PolyAcryl (PAN-01)	45 cm	89,3
S-S-53B	Silk (T-601)	45 cm	83,9
W-S-53B	Wool (T-541)	45 cm	67,2
N-S-53B	Nylon (T-365)	45 cm	87,4

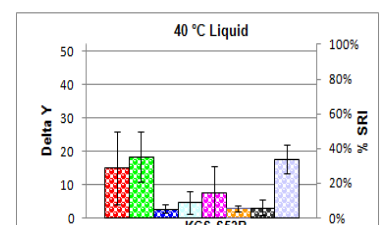
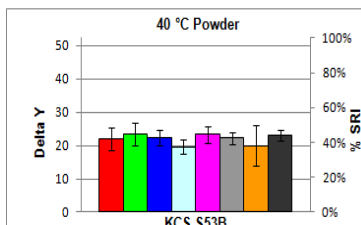
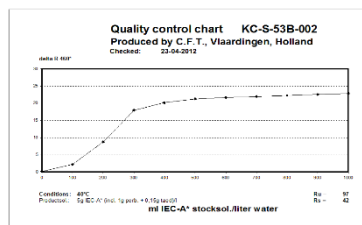
## C-S-53B

Discriminative Power<sup>2</sup>: **5,8**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **8,6**  
 Dynamic Range: **40,6**



## KC-S-53B

Discriminative Power<sup>2</sup>: **6,1**  
 Reproducibility Ratio: **7,3**  
 Reliability Ratio: **6,5**  
 Dynamic Range: **44,4**



# C-S-54

Oatmeal, coloured with chocolate, aged



A mix of oatmeal with instant chocolate powder. The oatmeal fibres will show a good cellulose response.

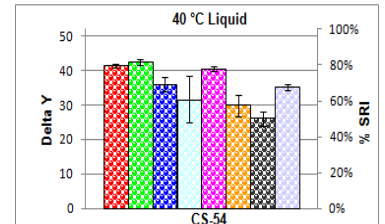
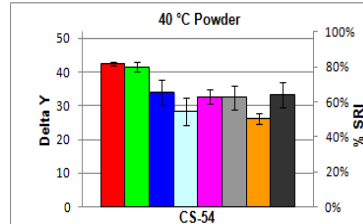
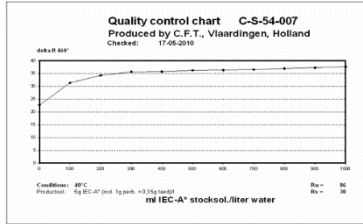
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-54	Cotton (CN-17)	45 cm	87,7
KC-S-54	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-54	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-54	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-54	PolyAcryl (PAN-01)	45 cm	89,3
S-S-54	Silk (T-601)	45 cm	83,9
W-S-54	Wool (T-541)	45 cm	67,2
N-S-54	Nylon (T-365)	45 cm	87,4

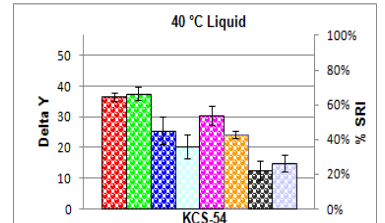
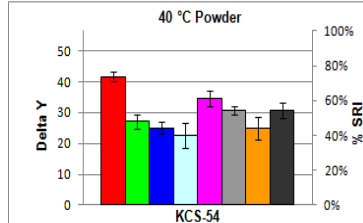
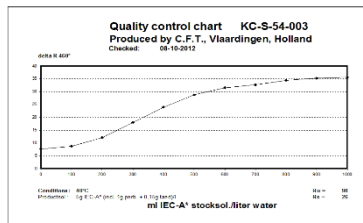
## C-S-54

Discriminative Power<sup>2</sup>: **6,9**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **36,3**



## KC-S-54

Discriminative Power<sup>2</sup>: **7,6**  
 Reproducibility Ratio: **8,4**  
 Reliability Ratio: **8,1**  
 Dynamic Range: **52,3**



# C-S-154

Oatmeal, coloured with chocolate



A mix of oatmeal with instant chocolate powder. The oatmeal fibres will show a good cellulose response.

Not aged at elevated temperature.

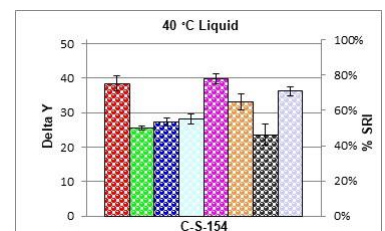
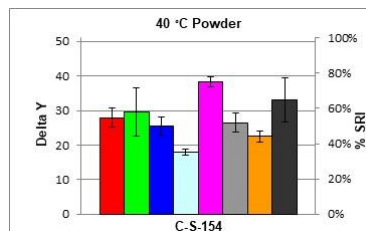
Order code:	Substrate:	Width:	Yu:
C-S-154	Cotton (CN-17)	45 cm	87,7
KC-S-154	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-154	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-154	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-154	PolyAcryl (PAN-01)	45 cm	89,3
S-S-154	Silk (T-601)	45 cm	83,9
W-S-154	Wool (T-541)	45 cm	67,2
N-S-154	Nylon (T-365)	45 cm	87,4

## C-S-154

Discriminative Power<sup>2</sup>: **6,8**  
 Reproducibility Ratio: **8,9**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **42,7**

Graph unavailable



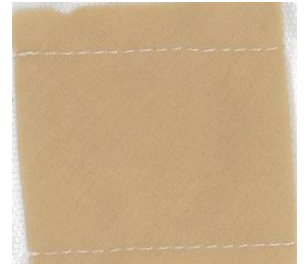
## KC-S-154

Discriminative Power<sup>2</sup>: **n/a**  
 Reproducibility Ratio: **n/a**  
 Reliability Ratio: **n/a**  
 Dynamic Range: **n/a**

Graphs unavailable

# C-S-55

## Orange juice, aged



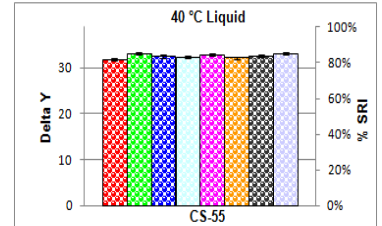
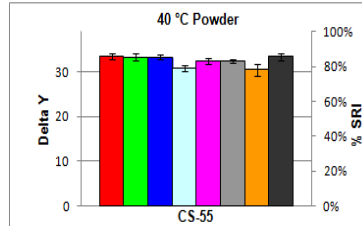
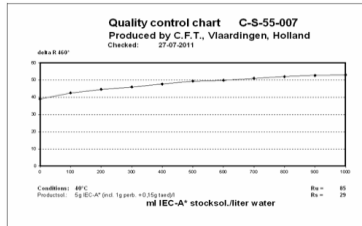
Contains proteins and pectins, next to natural colourants. This makes it suitable to investigate the influence of enzyme cocktails on soil removal, especially at low temperatures. Also sensitive to bleach. Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-55	Cotton (CN-17)	45 cm	87,7
KC-S-55	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-55	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-55	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-55	PolyAcryl (PAN-01)	45 cm	89,3
S-S-55	Silk (T-601)	45 cm	83,9
W-S-55	Wool (T-541)	45 cm	67,2
N-S-55	Nylon (T-365)	45 cm	87,4

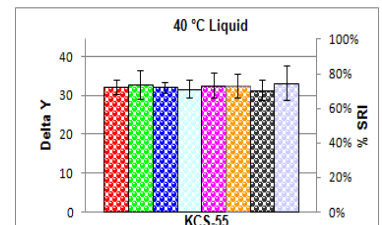
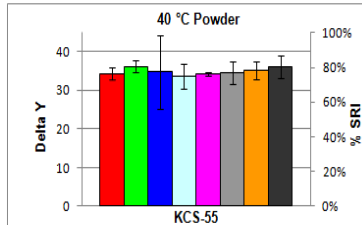
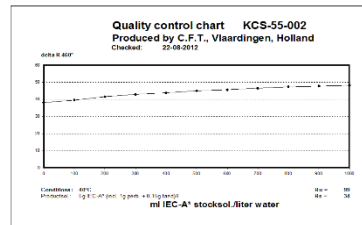
### C-S-55

Discriminative Power<sup>2</sup>: **4,7**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,7**  
 Dynamic Range: **11,7**



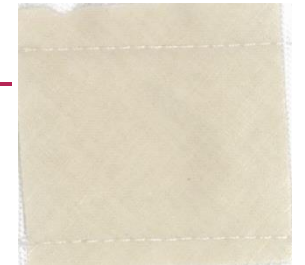
### KC-S-55

Discriminative Power<sup>2</sup>: **4,7**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **13,9**



# C-S-56

## Coca Cola, aged



One of the most common stains in reality. Suitable to measure stain removal. Aged by heating to make the stain more difficult to remove.

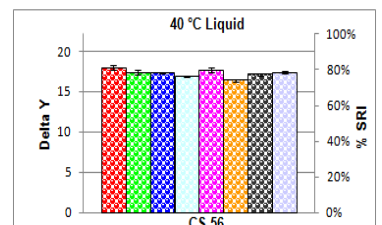
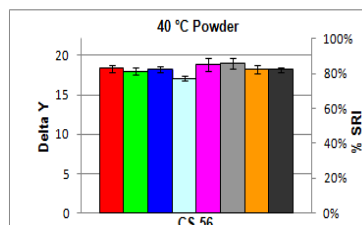
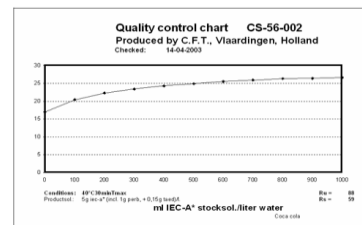
Aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-56	Cotton (CN-11)	45 cm	89,1
KC-S-56	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-56	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-56	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-56	PolyAcryl (PAN-01)	45 cm	89,3
S-S-56	Silk (T-601)	45 cm	83,9
W-S-56	Wool (T-541)	45 cm	67,2
N-S-56	Nylon (T-365)	45 cm	87,4

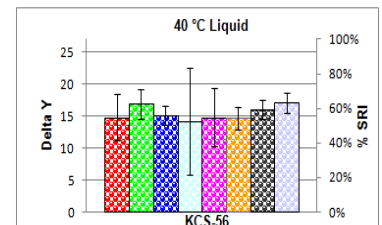
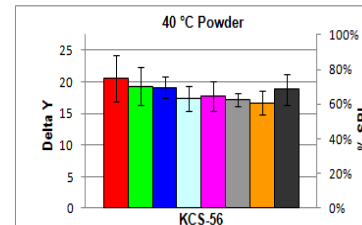
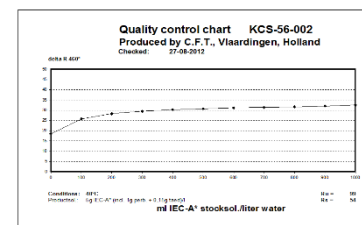
### C-S-56

Discriminative Power<sup>2</sup>: **4,6**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,8**  
 Dynamic Range: **20,2**



### KC-S-56

Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **8,2**  
 Reliability Ratio: **8,1**  
 Dynamic Range: **32,0**



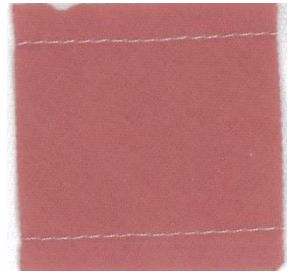
# C-S-57

Red beet, aged



This is the pure version of the C-BC-05. C-BC-05 is rinsed after soiling to remove the easier to remove parts. These are still present in C-S-57.

Aged at elevated temperature.

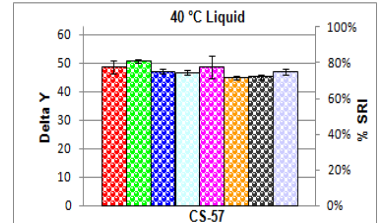
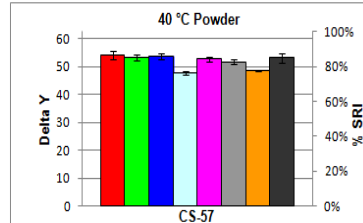
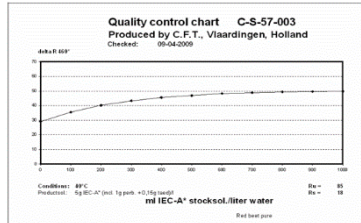


Order code:	Substrate:	Width:	Yu:
C-S-57	Cotton (CN-17)	90 cm	87,7
KC-S-57	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-57	Polyester/Cotton (PCN-01)	90 cm	87,8
P-S-57	Polyester (PN-01)	90 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-57	PolyAcryl (PAN-01)	45 cm	89,3
S-S-57	Silk (T-601)	45 cm	83,9
W-S-57	Wool (T-541)	45 cm	67,2
N-S-57	Nylon (T-365)	45 cm	87,4

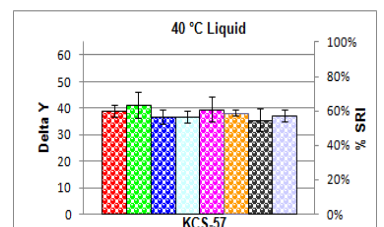
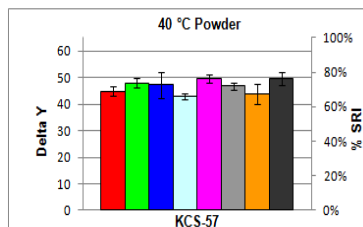
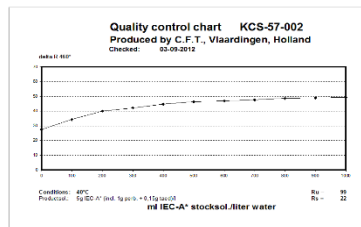
## C-S-57

Discriminative Power<sup>2</sup>: **5,5**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **16,9**



## KC-S-57

Discriminative Power<sup>2</sup>: **5,6**  
 Reproducibility Ratio: **7,5**  
 Reliability Ratio: **8,3**  
 Dynamic Range: **27,0**



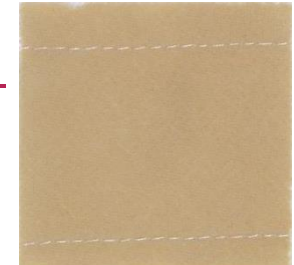
# C-S-58

Soy sauce, aged



A stain that is very common in reality. Especially suitable to test stain removal capacity of a detergent.

Aged at elevated temperature.

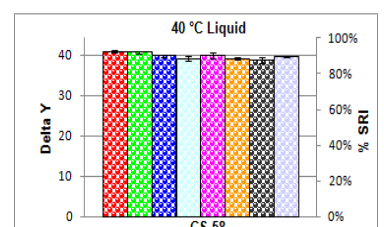
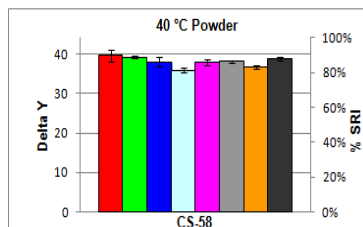
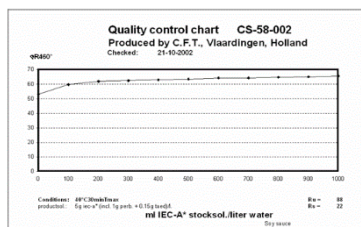


Order code:	Substrate:	Width:	Yu:
C-S-58	Cotton (CN-11)	45 cm	89,1
KC-S-58	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-58	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-58	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-58	PolyAcryl (PAN-01)	45 cm	89,3
S-S-58	Silk (T-601)	45 cm	83,9
W-S-58	Wool (T-541)	45 cm	67,2
N-S-58	Nylon (T-365)	45 cm	87,4

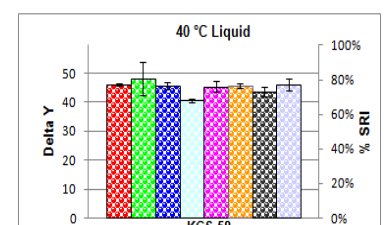
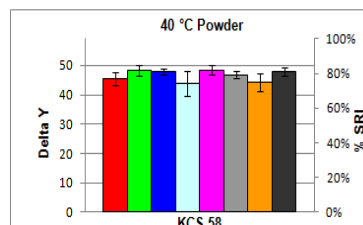
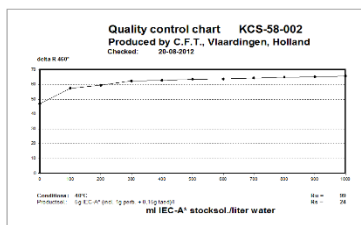
## C-S-58

Discriminative Power<sup>2</sup>: **4,9**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **9,7**  
 Dynamic Range: **12,5**



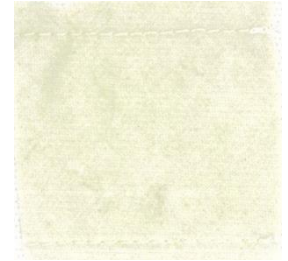
## KC-S-58

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **7,7**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **13,3**



# C-S-59

## Asian food stain



Especially aimed at the Asian market. The soil contains a mix of soy sauce, soy oil, curry and some other spices.

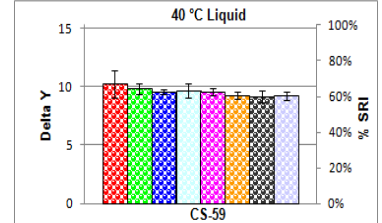
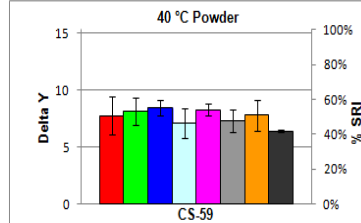
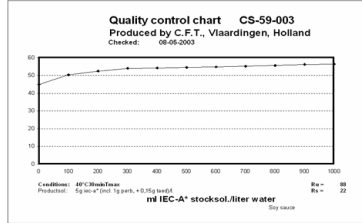
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-59	Cotton (CN-17)	45 cm	87,7
KC-S-59	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-59	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-59	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-59	PolyAcryl (PAN-01)	45 cm	89,3
S-S-59	Silk (T-601)	45 cm	83,9
W-S-59	Wool (T-541)	45 cm	67,2
N-S-59	Nylon (T-365)	45 cm	87,4

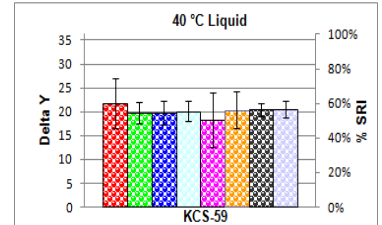
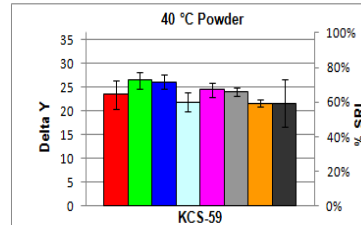
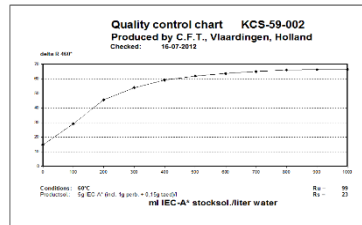
### C-S-59

Discriminative Power<sup>2</sup>: **4,5**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **9,7**  
 Dynamic Range: **27,6**



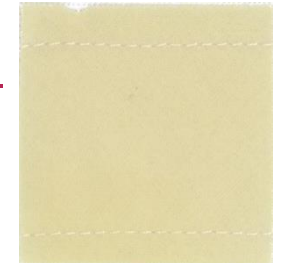
### KC-S-59

Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **8,0**  
 Reliability Ratio: **8,4**  
 Dynamic Range: **21,6**



# C-S-60

## Spaghetti sauce with beef



This beef containing product shows the bleach activity of the detergent on the tomatoes, in an environment where beef fat is present.

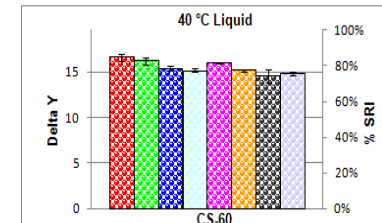
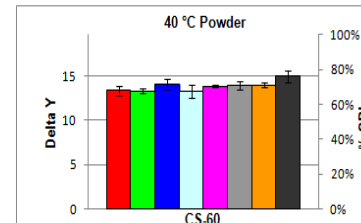
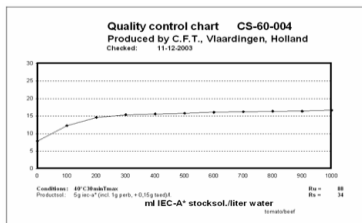
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-60	Cotton (CN-17)	45 cm	87,7
KC-S-60	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-60	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-60	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-60	PolyAcryl (PAN-01)	45 cm	89,3
S-S-60	Silk (T-601)	45 cm	83,9
W-S-60	Wool (T-541)	45 cm	67,2
N-S-60	Nylon (T-365)	45 cm	87,4

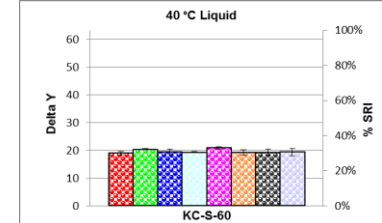
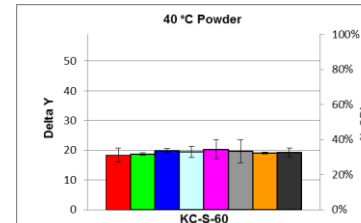
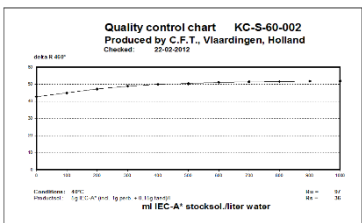
### C-S-60

Discriminative Power<sup>2</sup>: **4,5**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,8**  
 Dynamic Range: **18,8**

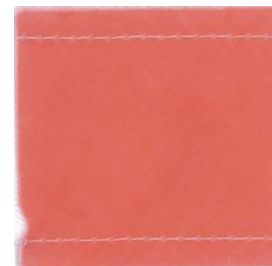


### KC-S-60

Discriminative Power<sup>2</sup>: **4,9**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **22,1**



# C-S-61 Beef fat, coloured with Sudan red



Very suitable to measure lipase enzyme activity during the washing process. Coloured with the least dangerous type of oil soluble Sudan Red dye.

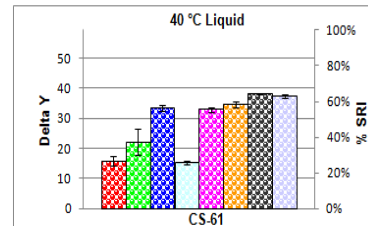
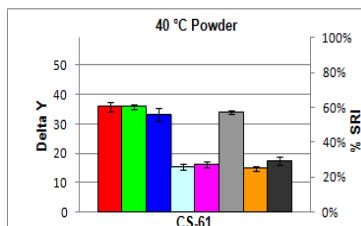
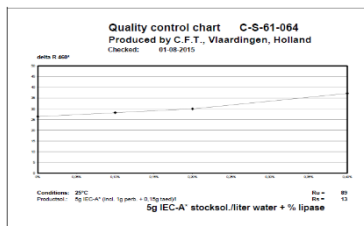
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-61	Cotton (CN-11)	45 cm	89,1
KC-S-61	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-61	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-61	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-61	PolyAcryl (PAN-01)	45 cm	89,3
S-S-61	Silk (T-601)	45 cm	83,9
W-S-61	Wool (T-541)	45 cm	67,2
N-S-61	Nylon (T-365)	45 cm	87,4

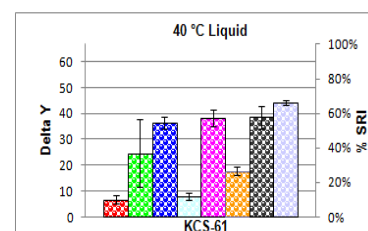
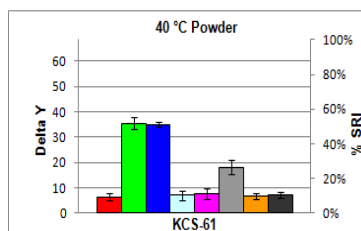
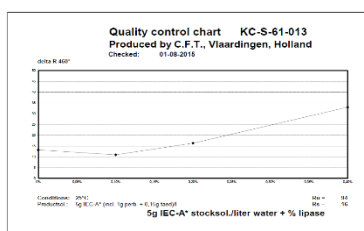
## C-S-61

Discriminative Power<sup>2</sup>: **7,6**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **40,4**

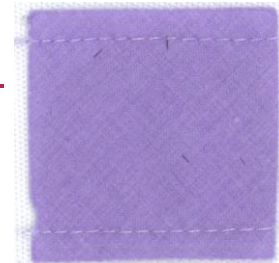


## KC-S-61

Discriminative Power<sup>2</sup>: **8,5**  
 Reproducibility Ratio: **7,1**  
 Reliability Ratio: **7,1**  
 Dynamic Range: **52,2**



# C-S-61B Beef fat, coloured with violet dye



Very suitable to measure lipase enzyme activity during the washing process. Coloured with violet dye.

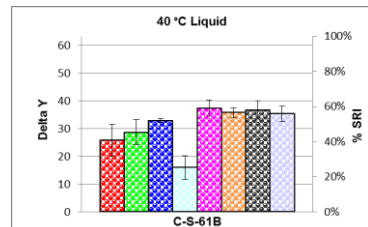
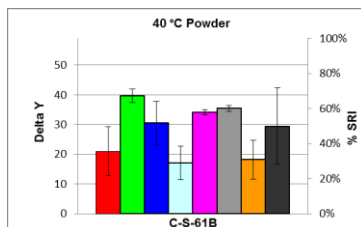
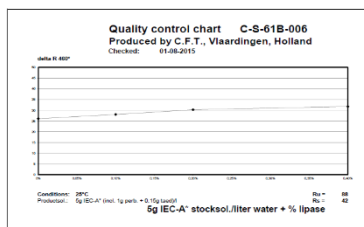
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-61B	Cotton (CN-11)	45 cm	89,1
KC-S-61B	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-61B	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-61B	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-61B	PolyAcryl (PAN-01)	45 cm	89,3
S-S-61B	Silk (T-601)	45 cm	83,9
W-S-61B	Wool (T-541)	45 cm	67,2
N-S-61B	Nylon (T-365)	45 cm	87,4

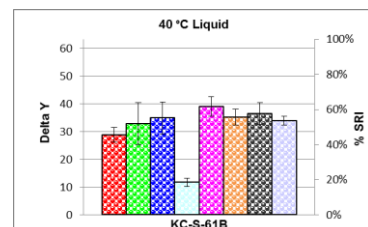
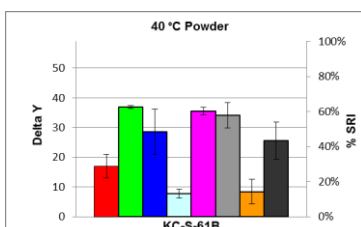
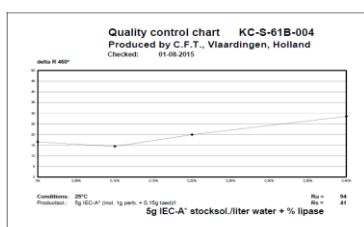
## C-S-61B

Discriminative Power<sup>2</sup>: **7,4**  
 Reproducibility Ratio: **8,0**  
 Reliability Ratio: **7,2**  
 Dynamic Range: **35,6**



## KC-S-61B

Discriminative Power<sup>2</sup>: **8,1**  
 Reproducibility Ratio: **6,5**  
 Reliability Ratio: **7,4**  
 Dynamic Range: **50,0**



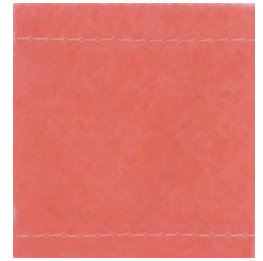


# C-S-62 Lard, coloured with Sudan red



Very suitable to measure lipase enzyme activity during the washing process. Coloured with the least dangerous type of oil soluble Sudan Red dye.

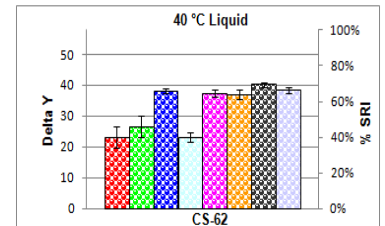
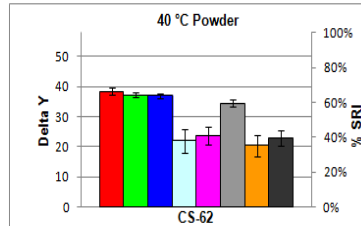
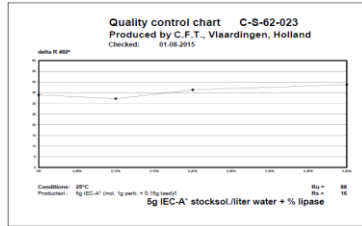
Not aged at elevated temperature.



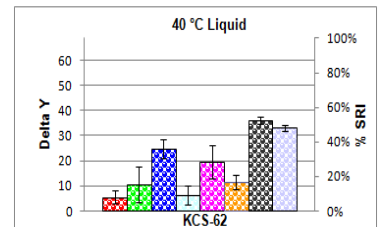
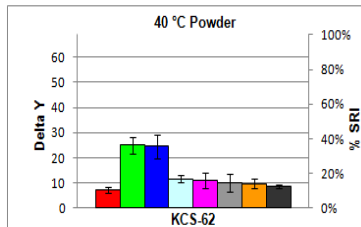
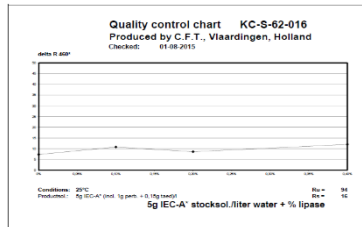
Order code:	Substrate:	Width:	Yu:
C-S-62	Cotton (CN-11)	45 cm	89,1
KC-S-62	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-62	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-62	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-62	PolyAcryl (PAN-01)	45 cm	89,3
S-S-62	Silk (T-601)	45 cm	83,9
W-S-62	Wool (T-541)	45 cm	67,2
N-S-62	Nylon (T-365)	45 cm	87,4

**C-S-62**  
 Discriminative Power<sup>2</sup>: **7,3**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **8,6**  
 Dynamic Range: **36,9**



**KC-S-62**  
 Discriminative Power<sup>2</sup>: **7,3**  
 Reproducibility Ratio: **7,6**  
 Reliability Ratio: **6,5**  
 Dynamic Range: **40,6**



# C-S-62B Lard, coloured with violet dye



Very suitable to measure lipase enzyme activity during the washing process. Coloured with violet dye.

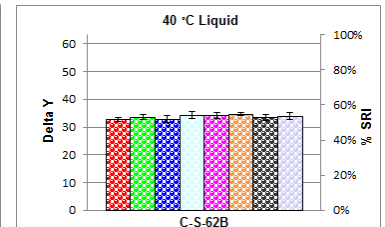
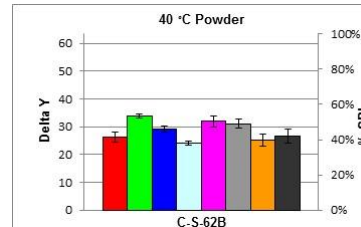
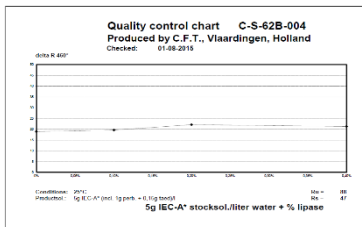
Not aged at elevated temperature.



Order code:	Substrate:	Width:	Yu:
C-S-62B	Cotton (CN-11)	45 cm	89,1
KC-S-62B	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-62B	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-62B	Polyester (PN-01)	45 cm	86,5

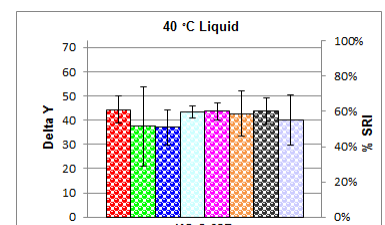
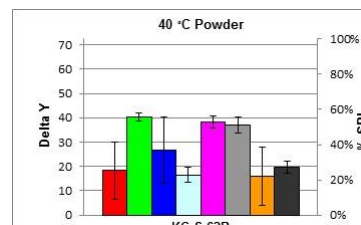
Order code:	Substrate:	Width:	Yu:
PA-S-62B	PolyAcryl (PAN-01)	45 cm	89,3
S-S-62B	Silk (T-601)	45 cm	83,9
W-S-62B	Wool (T-541)	45 cm	67,2
N-S-62B	Nylon (T-365)	45 cm	87,4

**C-S-62B**  
 Discriminative Power<sup>2</sup>: **5,6**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **22,1**



**KC-S-62B**  
 Discriminative Power<sup>2</sup>: **7,3**  
 Reproducibility Ratio: **6,7**  
 Reliability Ratio: **6,2**  
 Dynamic Range: **48,7**

Graph unavailable



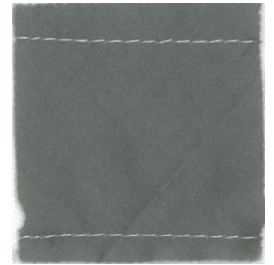
# C-S-64

## Beef fat with carbon black



Another lipase sensitive monitor based on beef fat. Soot is added to allow you to measure the removal of fat during the wash.

Not aged at elevated temperature.

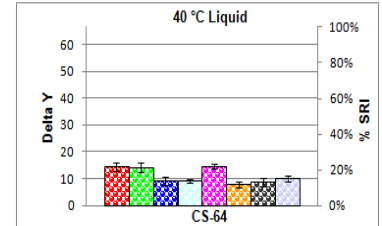
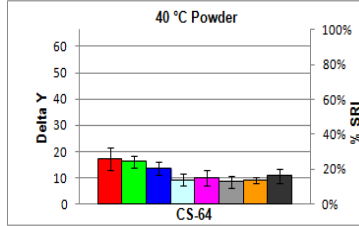
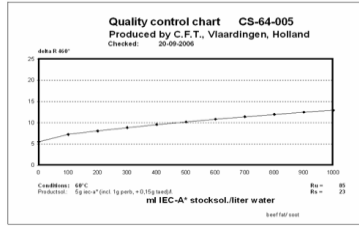


Order code:	Substrate:	Width:	Yu:
C-S-64	Cotton (CN-17)	45 cm	87,7
KC-S-64	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-64	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-64	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-64	PolyAcryl (PAN-01)	45 cm	89,3
S-S-64	Silk (T-601)	45 cm	83,9
W-S-64	Wool (T-541)	45 cm	67,2
N-S-64	Nylon (T-365)	45 cm	87,4

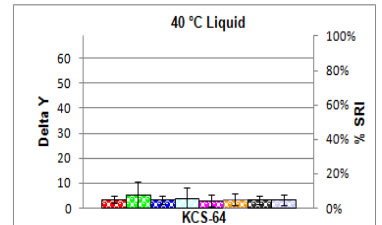
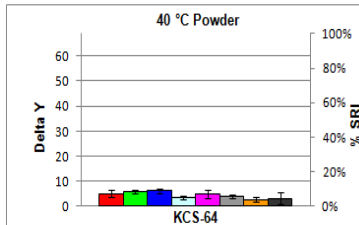
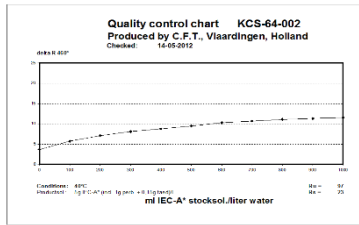
### C-S-64

Discriminative Power<sup>2</sup>: **5,8**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **7,3**  
 Dynamic Range: **17,2**



### KC-S-64

Discriminative Power<sup>2</sup>: **4,8**  
 Reproducibility Ratio: **7,1**  
 Reliability Ratio: **7,4**  
 Dynamic Range: **6,6**



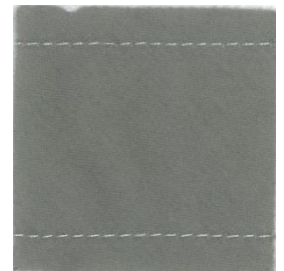
# C-S-65

## Dirty Motor Oil (DMO)



A very common soil that consists of motor oil. Similar to the dirty motor oil Circular Stain (C-H013), but with a much lower standard deviation.

Not aged at elevated temperature.

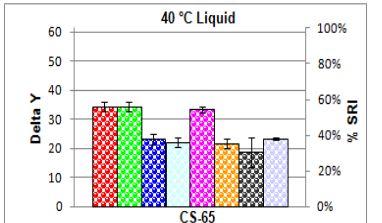
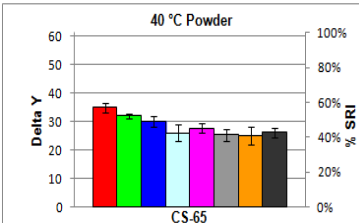
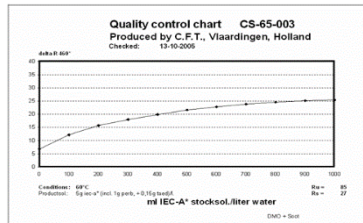


Order code:	Substrate:	Width:	Yu:
C-S-65	Cotton (CN-17)	45 cm	87,7
KC-S-65	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-65	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-65	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-65	PolyAcryl (PAN-01)	45 cm	89,3
S-S-65	Silk (T-601)	45 cm	83,9
W-S-65	Wool (T-541)	45 cm	67,2
N-S-65	Nylon (T-365)	45 cm	87,4

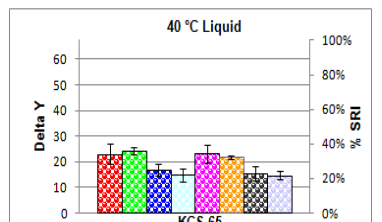
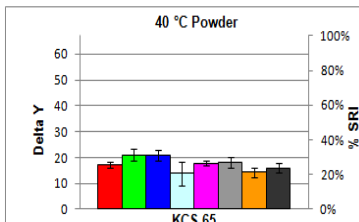
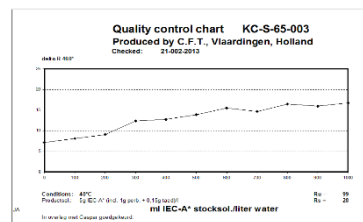
### C-S-65

Discriminative Power<sup>2</sup>: **6,5**  
 Reproducibility Ratio: **8,9**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **26,9**



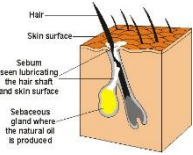
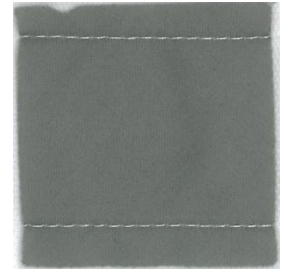
### KC-S-65

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **7,6**  
 Reliability Ratio: **8,1**  
 Dynamic Range: **16,6**



# C-S-66

## Lanoline with carbon black



A common testmaterial in the industry.

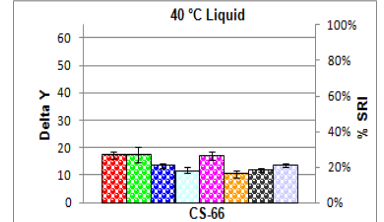
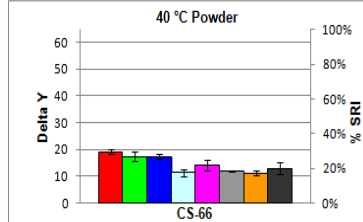
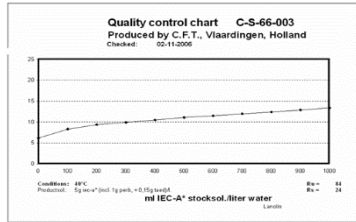
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-66	Cotton (CN-17)	45 cm	87,7
KC-S-66	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-66	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-66	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-66	PolyAcryl (PAN-01)	45 cm	89,3
S-S-66	Silk (T-601)	45 cm	83,9
W-S-66	Wool (T-541)	45 cm	67,2
N-S-66	Nylon (T-365)	45 cm	87,4

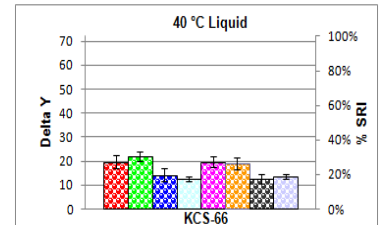
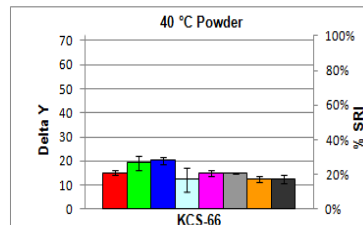
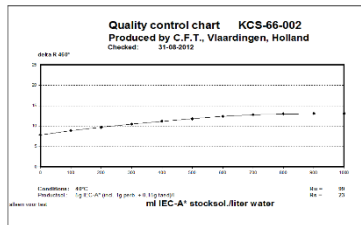
### C-S-66

Discriminative Power<sup>2</sup>: **5,8**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **15,0**



### KC-S-66

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **7,8**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **16,3**



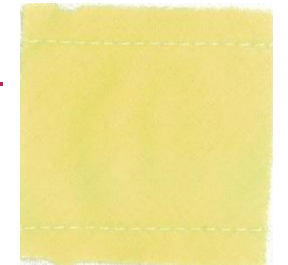
# C-S-67

## Mustard



A difficult to remove stain, which is pretty common in real life. Will react to bleach, but also to enzyme cocktails.

Not aged at elevated temperature.

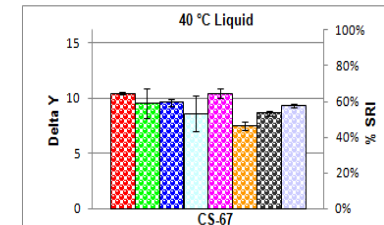
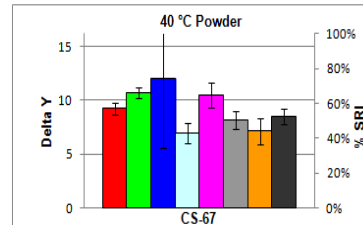
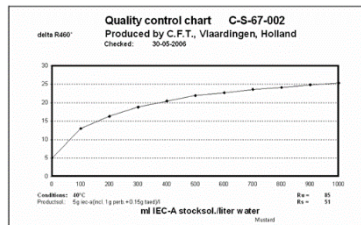


Order code:	Substrate:	Width:	Yu:
C-S-67	Cotton (CN-17)	45 cm	87,7
KC-S-67	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-67	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-67	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-67	PolyAcryl (PAN-01)	45 cm	89,3
S-S-67	Silk (T-601)	45 cm	83,9
W-S-67	Wool (T-541)	45 cm	67,2
N-S-67	Nylon (T-365)	45 cm	87,4

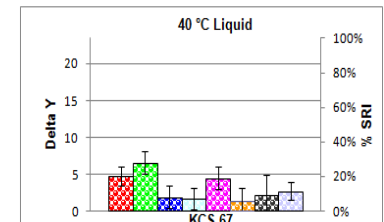
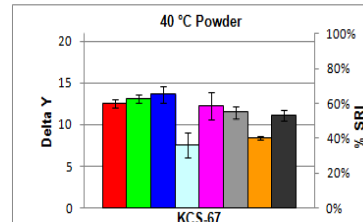
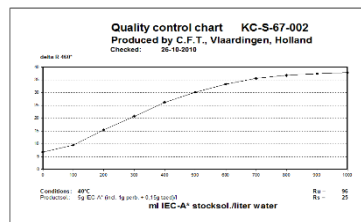
### C-S-67

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,6**  
 Dynamic Range: **43,5**



### KC-S-67

Discriminative Power<sup>2</sup>: **5,5**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **49,7**



# C-S-68

## Chocolate ice cream, aged



Contains guar gum and is therefore useful as mannanase sensitive monitor. It also represents a common stain in reality.

Aged at elevated temperature.

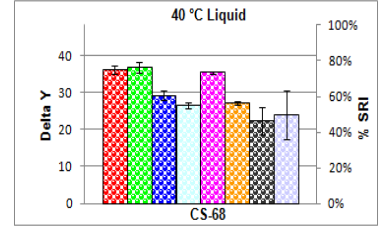
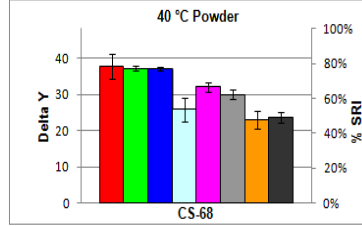
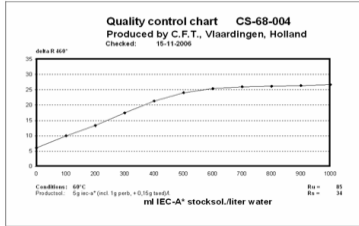


Order code:	Substrate:	Width:	Yu:
C-S-68	Cotton (CN-17)	45 cm	87,7
KC-S-68	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-68	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-68	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-68	PolyAcryl (PAN-01)	45 cm	89,3
S-S-68	Silk (T-601)	45 cm	83,9
W-S-68	Wool (T-541)	45 cm	67,2
N-S-68	Nylon (T-365)	45 cm	87,4

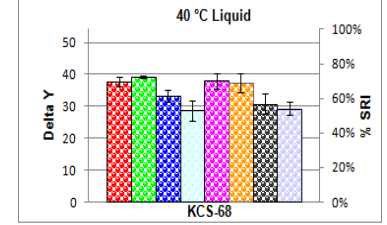
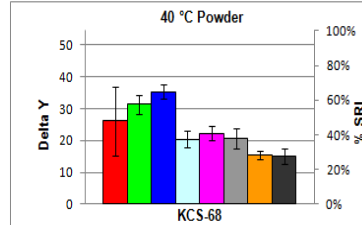
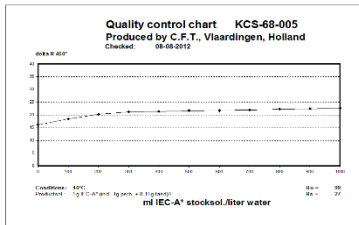
### C-S-68

Discriminative Power<sup>2</sup>: **7,1**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **43,7**



### KC-S-68

Discriminative Power<sup>2</sup>: **7,0**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **8,4**  
 Dynamic Range: **48,2**



# C-S-69

## Chocolate pudding



The pudding used for this soil is an average composition of the most popular chocolate puddings on the market. It contains both guar gum and starch.

Not aged at elevated temperature.

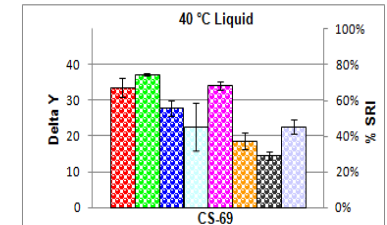
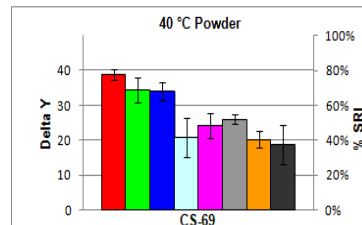
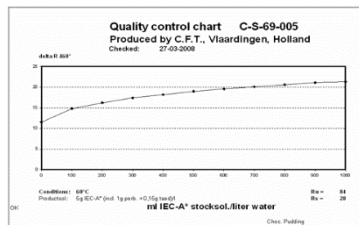


Order code:	Substrate:	Width:	Yu:
C-S-69	Cotton (CN-17)	45 cm	87,7
KC-S-69	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-69	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-69	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-69	PolyAcryl (PAN-01)	45 cm	89,3
S-S-69	Silk (T-601)	45 cm	83,9
W-S-69	Wool (T-541)	45 cm	67,2
N-S-69	Nylon (T-365)	45 cm	87,4

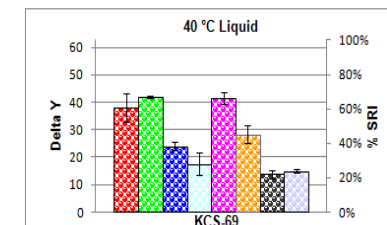
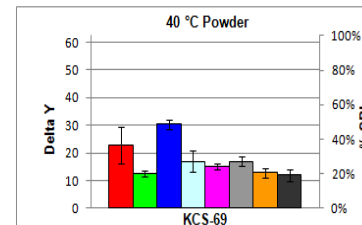
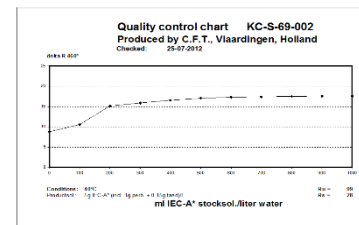
### C-S-69

Discriminative Power<sup>2</sup>: **7,5**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **51,2**



### KC-S-69

Discriminative Power<sup>2</sup>: **7,5**  
 Reproducibility Ratio: **8,3**  
 Reliability Ratio: **8,0**  
 Dynamic Range: **51,5**



# C-S-70

## Chocolate mousse



Contains guar gum and is therefore useful as mannanase sensitive monitor. It also represents a common stain in reality.

Not aged at elevated temperature.

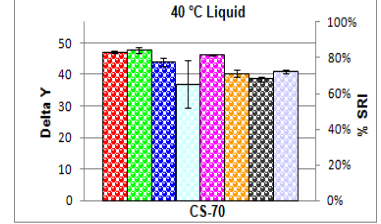
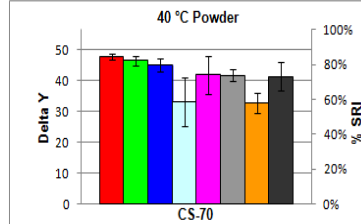
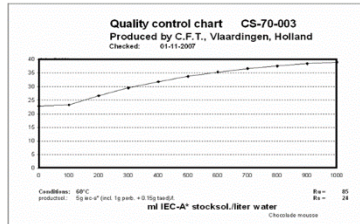


Order code:	Substrate:	Width:	Yu:
C-S-70	Cotton (CN-17)	45 cm	87,7
KC-S-70	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-70	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-70	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-70	PolyAcryl (PAN-01)	45 cm	89,3
S-S-70	Silk (T-601)	45 cm	83,9
W-S-70	Wool (T-541)	45 cm	67,2
N-S-70	Nylon (T-365)	45 cm	87,4

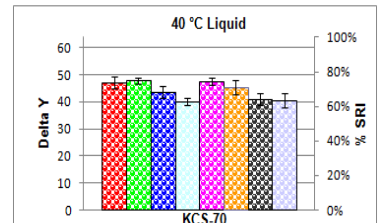
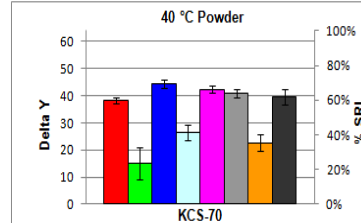
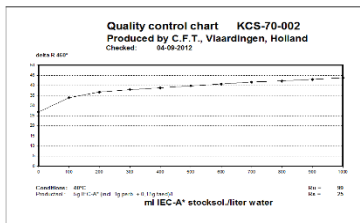
### C-S-70

Discriminative Power<sup>2</sup>: **6,7**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **33,9**



### KC-S-70

Discriminative Power<sup>2</sup>: **7,7**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **7,4**  
 Dynamic Range: **57,8**



# C-S-170

## Chocolate mousse, aged



Contains guar gum and is therefore useful as mannanase sensitive monitor. It also represents a common stain in reality.

Aged at elevated temperature.

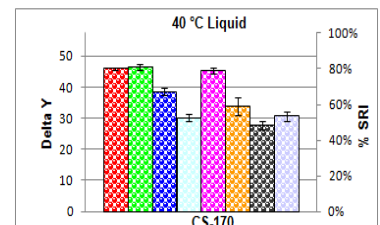
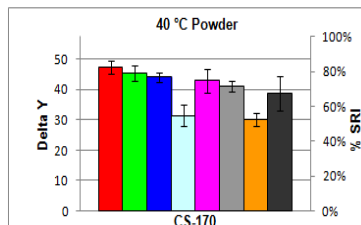
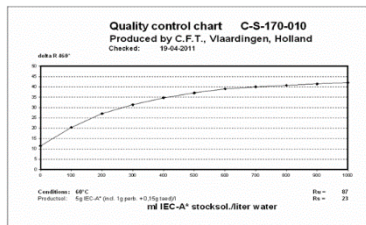


Order code:	Substrate:	Width:	Yu:
C-S-170	Cotton (CN-17)	45 cm	87,7
KC-S-170	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-170	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-170	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-170	PolyAcryl (PAN-01)	45 cm	89,3
S-S-170	Silk (T-601)	45 cm	83,9
W-S-170	Wool (T-541)	45 cm	67,2
N-S-170	Nylon (T-365)	45 cm	87,4

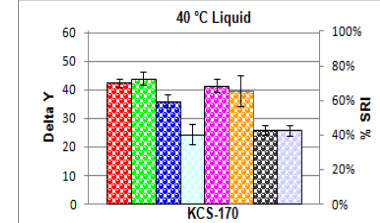
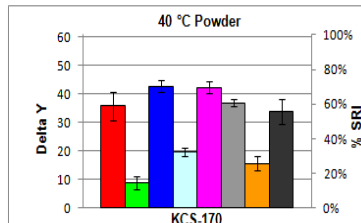
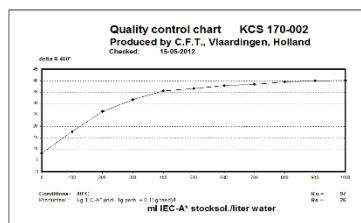
### C-S-170

Discriminative Power<sup>2</sup>: **7,3**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **44,3**



### KC-S-170

Discriminative Power<sup>2</sup>: **8,1**  
 Reproducibility Ratio: **8,1**  
 Reliability Ratio: **7,6**  
 Dynamic Range: **60,2**



# C-S-71

## Strawberry ice cream



Consumer relevant soil containing guar gum.

Not aged at elevated temperature.

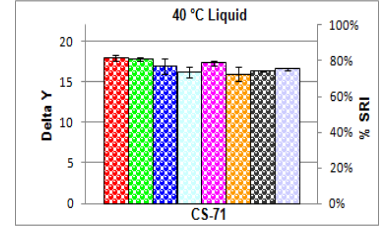
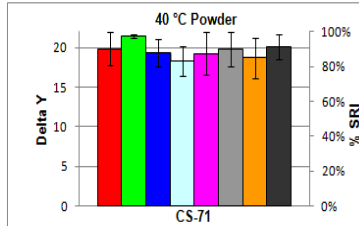
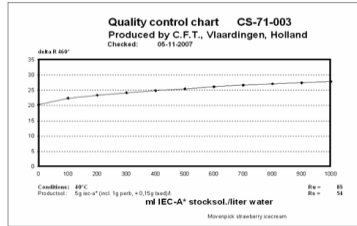


Order code:	Substrate:	Width:	Yu:
C-S-71	Cotton (CN-17)	45 cm	87,7
KC-S-71	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-71	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-71	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-71	PolyAcryl (PAN-01)	45 cm	89,3
S-S-71	Silk (T-601)	45 cm	83,9
W-S-71	Wool (T-541)	45 cm	67,2
N-S-71	Nylon (T-365)	45 cm	87,4

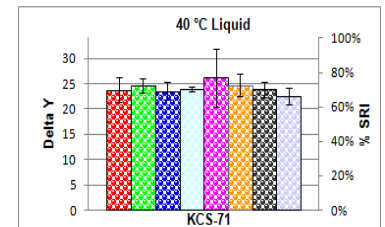
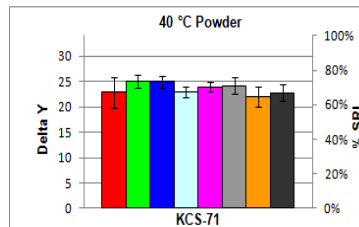
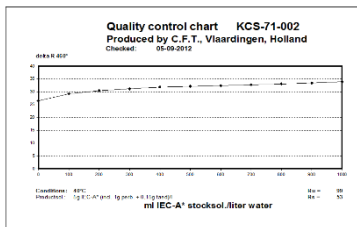
### C-S-71

Discriminative Power<sup>2</sup>: **4,8**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **23,7**



### KC-S-71

Discriminative Power<sup>2</sup>: **5,0**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **16,7**



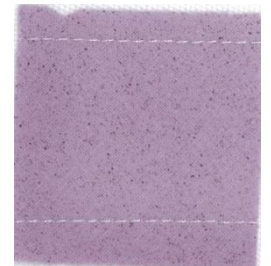
# C-S-72

## Forest fruit ice cream



Consumer relevant soil containing guar gum. Includes homogenously spread particles, therefore it is also useful for particle removal.

Not aged at elevated temperature.

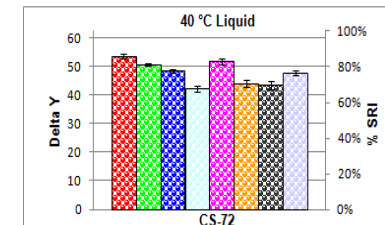
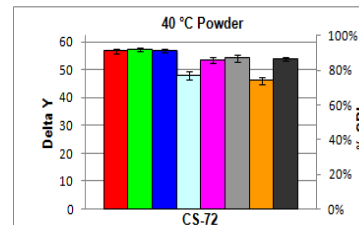
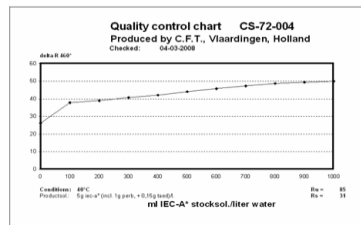


Order code:	Substrate:	Width:	Yu:
C-S-72	Cotton (CN-17)	45 cm	87,7
KC-S-72	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-72	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-72	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-72	PolyAcryl (PAN-01)	45 cm	89,3
S-S-72	Silk (T-601)	45 cm	83,9
W-S-72	Wool (T-541)	45 cm	67,2
N-S-72	Nylon (T-365)	45 cm	87,4

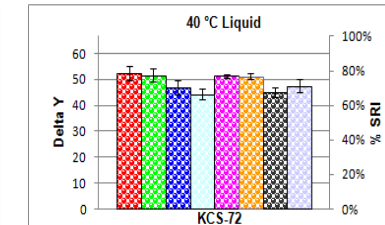
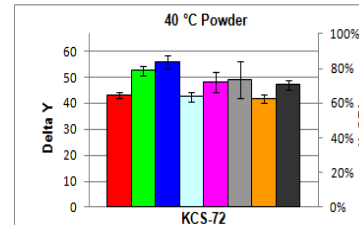
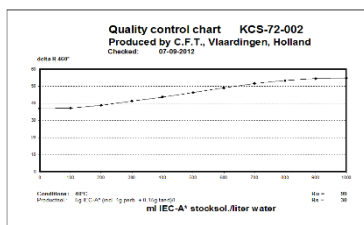
### C-S-72

Discriminative Power<sup>2</sup>: **6,4**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **30,2**



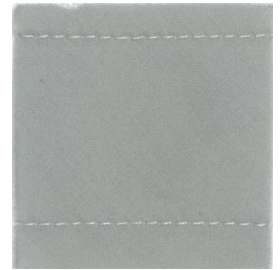
### KC-S-72

Discriminative Power<sup>2</sup>: **6,5**  
 Reproducibility Ratio: **7,2**  
 Reliability Ratio: **8,4**  
 Dynamic Range: **25,7**



# C-S-73

## Locustbeangum with pigment



Locustbeangum is, next to guar gum, one of the most commonly used gums in all kinds of food products. One of the most discriminating mannanase monitors.

Not aged at elevated temperature.

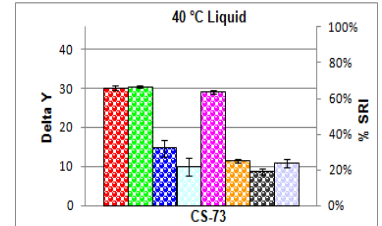
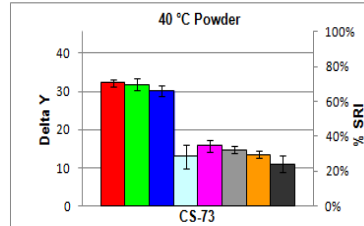
Order code:	Substrate:	Width:	Yu:
C-S-73	Cotton (CN-17)	45 cm	87,7
KC-S-73	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-73	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-73	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-73	PolyAcryl (PAN-01)	45 cm	89,3
S-S-73	Silk (T-601)	45 cm	83,9
W-S-73	Wool (T-541)	45 cm	67,2
N-S-73	Nylon (T-365)	45 cm	87,4

### C-S-73

Discriminative Power<sup>2</sup>: **7,7**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **51,4**

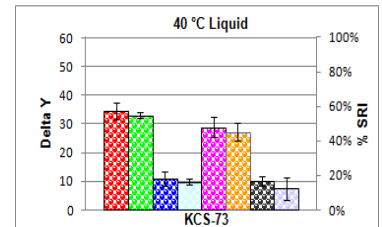
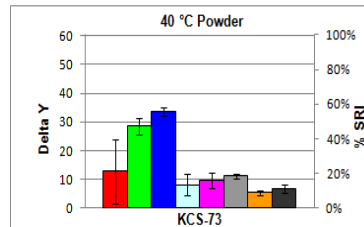
Graph unavailable



### KC-S-73

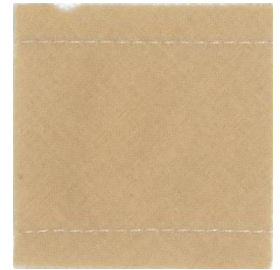
Discriminative Power<sup>2</sup>: **8,0**  
 Reproducibility Ratio: **8,0**  
 Reliability Ratio: **7,8**  
 Dynamic Range: **49,8**

Graph unavailable



# C-S-74

## Tobacco



A stain that for example occurs on drapes and curtains. A high concentration is applied on this testmaterial.

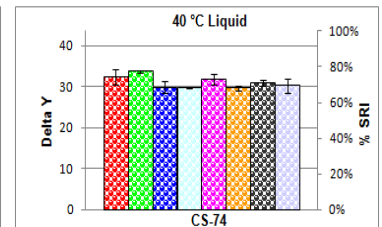
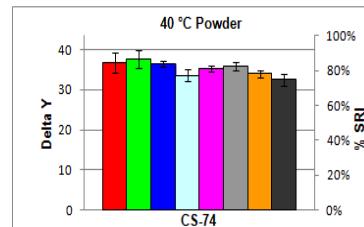
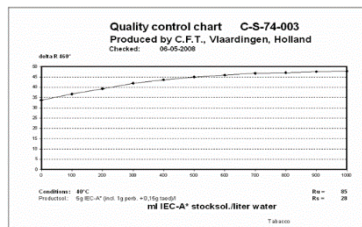
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-74	Cotton (CN-17)	45 cm	87,7
KC-S-74	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-74	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-74	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-74	PolyAcryl (PAN-01)	45 cm	89,3
S-S-74	Silk (T-601)	45 cm	83,9
W-S-74	Wool (T-541)	45 cm	67,2
N-S-74	Nylon (T-365)	45 cm	87,4

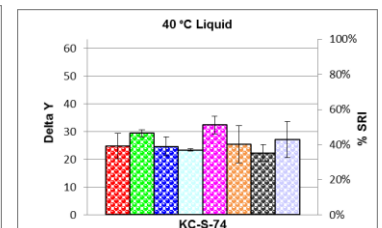
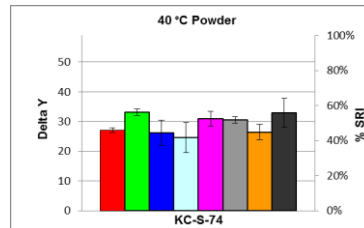
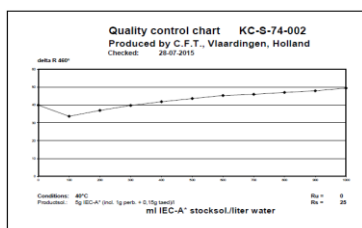
### C-S-74

Discriminative Power<sup>2</sup>: **5,4**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **27,9**



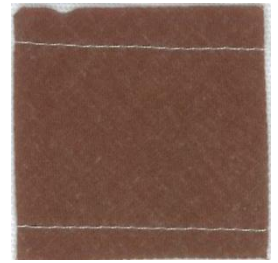
### KC-S-74

Discriminative Power<sup>2</sup>: **5,9**  
 Reproducibility Ratio: **8,9**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **21,7**



# C-S-75

## Blood with beef fat



A very consumer relevant stain. In practice a lot of cooking stains with beef fat will also contain blood. Lipase sensitive.

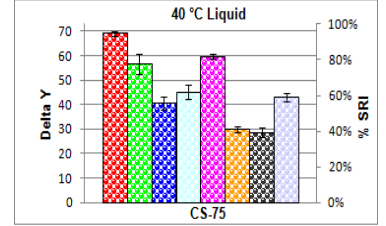
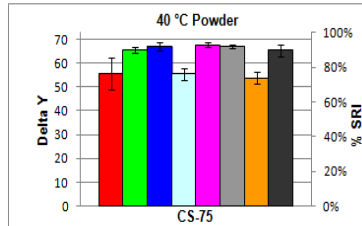
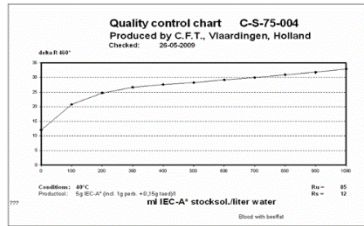
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-75	Cotton (CN-11)	45 cm	89,1
KC-S-75	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-75	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-75	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-75	PolyAcryl (PAN-01)	45 cm	89,3
S-S-75	Silk (T-601)	45 cm	83,9
W-S-75	Wool (T-541)	45 cm	67,2
N-S-75	Nylon (T-365)	45 cm	87,4

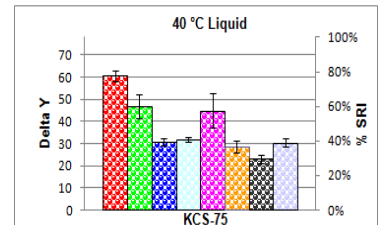
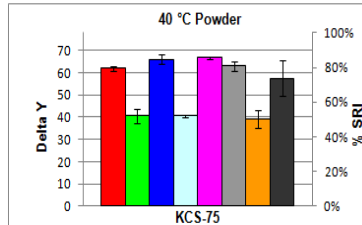
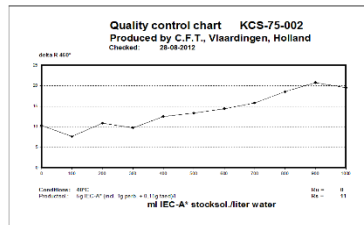
### C-S-75

Discriminative Power<sup>2</sup>: **7,9**  
 Reproducibility Ratio: **8,2**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **55,6**



### KC-S-75

Discriminative Power<sup>2</sup>: **8,2**  
 Reproducibility Ratio: **7,9**  
 Reliability Ratio: **7,5**  
 Dynamic Range: **55,8**



# C-S-76

## Household dust



For this testmaterial we use a standardized mixture representative for household dust. This mixture is also used for carpet cleaning tests. It contains a lot of particles like iron oxides and carbon black.

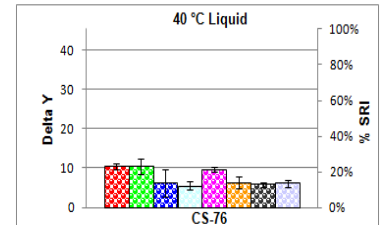
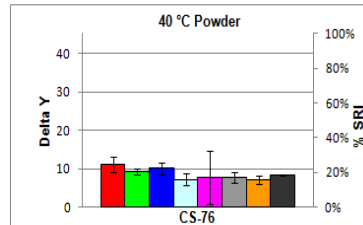
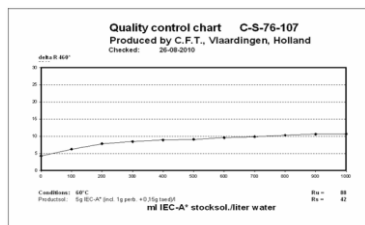
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-76	Cotton (CN-11)	45 cm	89,1
KC-S-76	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-76	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-76	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-76	PolyAcryl (PAN-01)	45 cm	89,3
S-S-76	Silk (T-601)	45 cm	83,9
W-S-76	Wool (T-541)	45 cm	67,2
N-S-76	Nylon (T-365)	45 cm	87,4

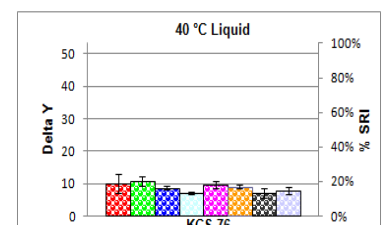
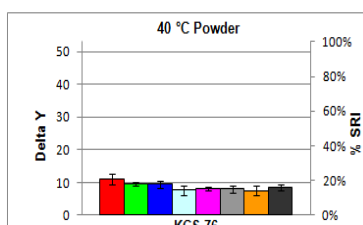
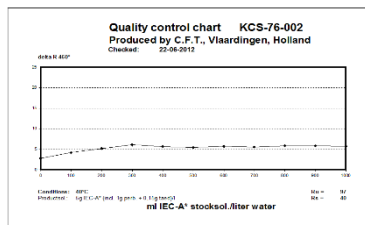
### C-S-76

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **13,0**



### KC-S-76

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **8,8**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **13,9**





# C-S-77

## Baby food carrot/potato



A very consumer relevant stain. The soil mix is identical to the AISE baby food soil. However, the reproducibility is much higher due to the mechanical application. The Circular Stain version would be C-H102. Not aged at elevated temperature.

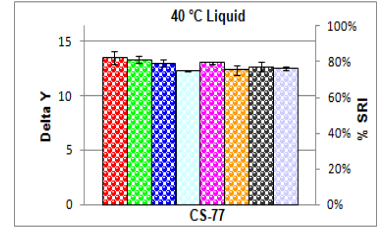
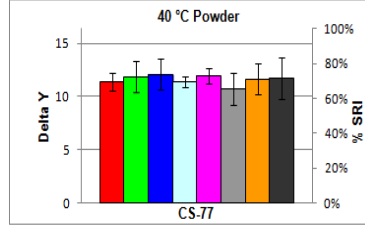
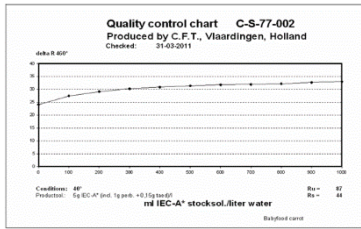


Order code:	Substrate:	Width:	Yu:
C-S-77	Cotton (CN-17)	45 cm	87,7
KC-S-77	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-77	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-77	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-77	PolyAcryl (PAN-01)	45 cm	89,3
S-S-77	Silk (T-601)	45 cm	83,9
W-S-77	Wool (T-541)	45 cm	67,2
N-S-77	Nylon (T-365)	45 cm	87,4

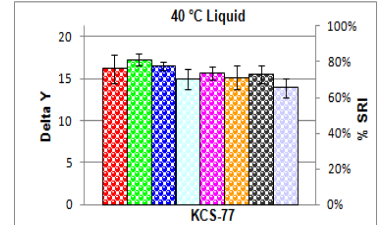
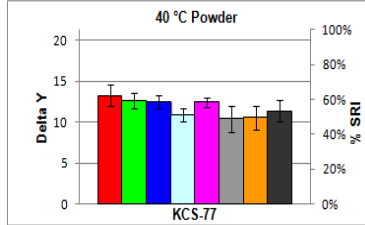
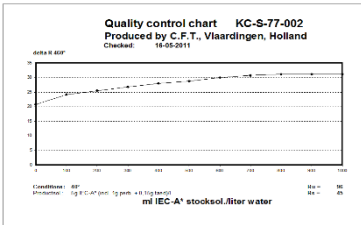
### C-S-77

Discriminative Power<sup>2</sup>: **4,5**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,7**  
 Dynamic Range: **20,4**



### KC-S-77

Discriminative Power<sup>2</sup>: **4,9**  
 Reproducibility Ratio: **9,0**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **47,1**

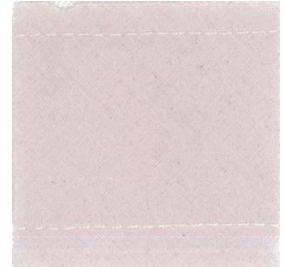


# C-S-77B

## Baby food banana/strawberry



A very consumer relevant stain. The banana makes this soil a good tracer for pectinase enzyme activity. The strawberry gives a darker colour and makes it more discriminative. Not aged at elevated temperature.

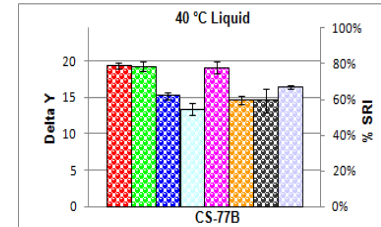
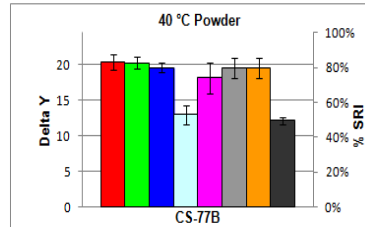
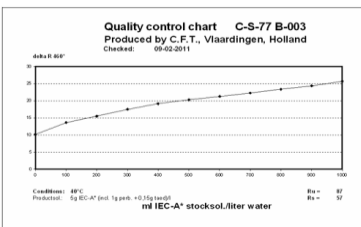


Order code:	Substrate:	Width:	Yu:
C-S-77B	Cotton (CN-17)	45 cm	87,7
KC-S-77B	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-77B	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-77B	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-77B	PolyAcryl (PAN-01)	45 cm	89,3
S-S-77B	Silk (T-601)	45 cm	83,9
W-S-77B	Wool (T-541)	45 cm	67,2
N-S-77B	Nylon (T-365)	45 cm	87,4

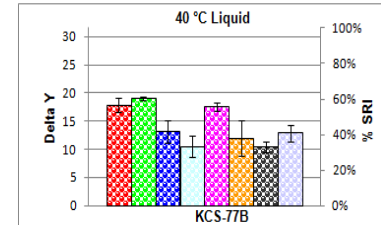
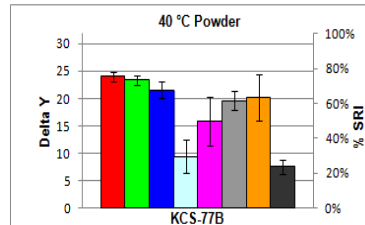
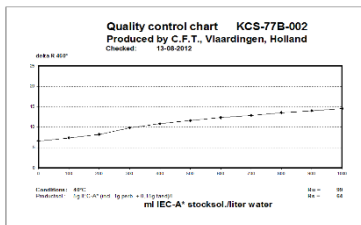
### C-S-77B

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **43,5**



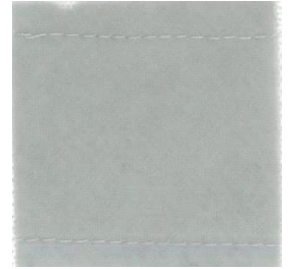
### KC-S-77B

Discriminative Power<sup>2</sup>: **6,4**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **54,0**



# C-S-78

## Soybean oil with pigment



Soybean oil with added pigment to make the stain visible.

Not aged at elevated temperature.

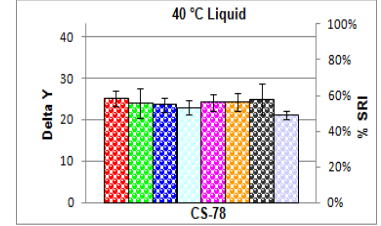
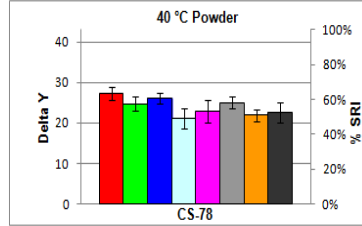
Order code:	Substrate:	Width:	Yu:
C-S-78	Cotton (CN-17)	45 cm	87,7
KC-S-78	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-78	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-78	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-78	PolyAcryl (PAN-01)	45 cm	89,3
S-S-78	Silk (T-601)	45 cm	83,9
W-S-78	Wool (T-541)	45 cm	67,2
N-S-78	Nylon (T-365)	45 cm	87,4

### C-S-78

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,7**  
 Dynamic Range: **16,4**

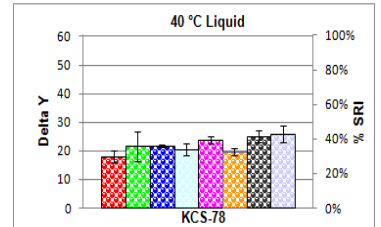
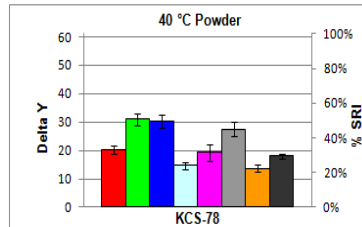
Graph  
unavailable



### KC-S-78

Discriminative Power<sup>2</sup>: **6,5**  
 Reproducibility Ratio: **7,9**  
 Reliability Ratio: **8,2**  
 Dynamic Range: **30,4**

Graph  
unavailable



# C-S-79

## Tomato, Napolina



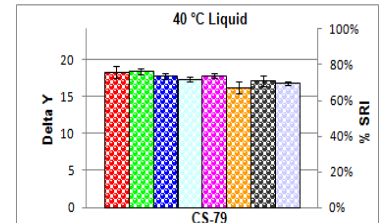
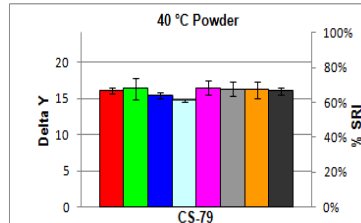
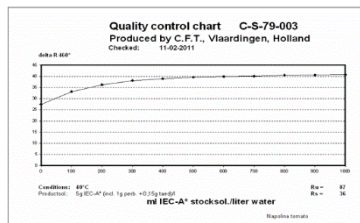
A very consumer relevant stain. The soil mix is identical to the AISE Napolina Tomato soil. However, the reproducibility is much higher due to the mechanical application. The Circular Stain version would be C-H079. Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-79	Cotton (CN-17)	45 cm	87,7
KC-S-79	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-79	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-79	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-79	PolyAcryl (PAN-01)	45 cm	89,3
S-S-79	Silk (T-601)	45 cm	83,9
W-S-79	Wool (T-541)	45 cm	67,2
N-S-79	Nylon (T-365)	45 cm	87,4

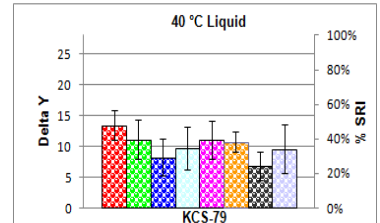
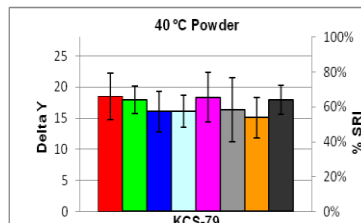
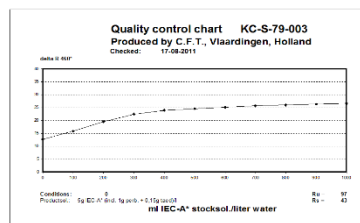
### C-S-79

Discriminative Power<sup>2</sup>: **4,6**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,6**  
 Dynamic Range: **14,9**



### KC-S-79

Discriminative Power<sup>2</sup>: **5,1**  
 Reproducibility Ratio: **7,9**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **37,4**



# C-S-80

Grass/mud



A very consumer relevant stain. The soil mix is identical to the AISE grass/mud soil. However, the reproducibility is much higher due to the mechanical application. The Circular Stain version would be C-H080. Not aged at elevated temperature.

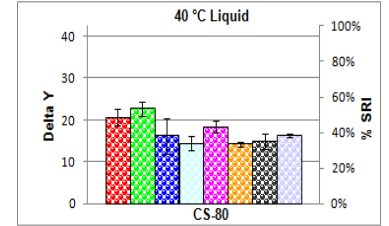
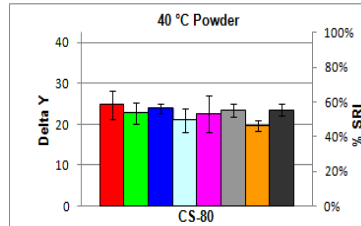
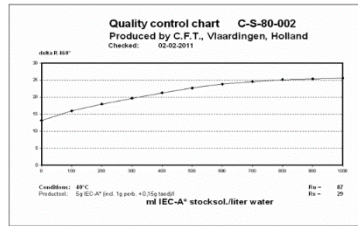


Order code:	Substrate:	Width:	Yu:
C-S-80	Cotton (CN-17)	45 cm	87,7
KC-S-80	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-80	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-80	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-80	PolyAcryl (PAN-01)	45 cm	89,3
S-S-80	Silk (T-601)	45 cm	83,9
W-S-80	Wool (T-541)	45 cm	67,2
N-S-80	Nylon (T-365)	45 cm	87,4

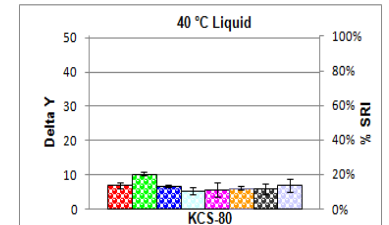
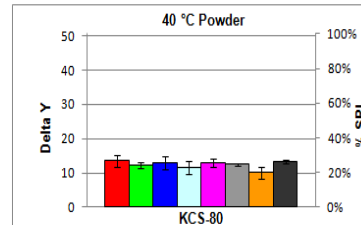
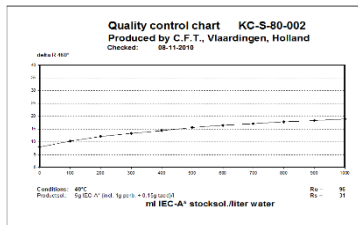
## C-S-80

Discriminative Power<sup>2</sup>: **5,5**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **26,6**



## KC-S-80

Discriminative Power<sup>2</sup>: **5,4**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **18,6**

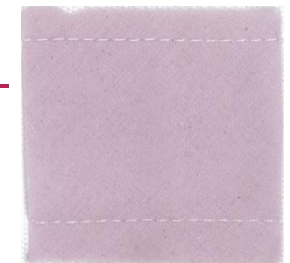


# C-S-81

Jam, forest fruit



Consumer relevant soil consisting of a common combination of berries, like strawberries, raspberries and blackberries, processed into a jam. One of the best pectinase sensitive tracers. Not aged at elevated temperature.

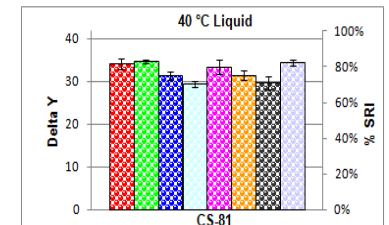
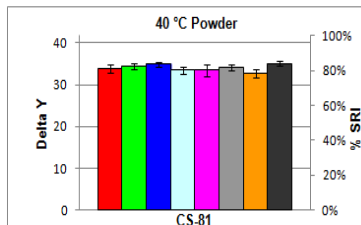
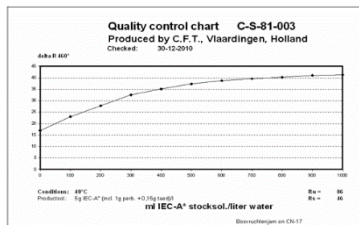


Order code:	Substrate:	Width:	Yu:
C-S-81	Cotton (CN-17)	45 cm	87,7
KC-S-81	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-81	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-81	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-81	PolyAcryl (PAN-01)	45 cm	89,3
S-S-81	Silk (T-601)	45 cm	83,9
W-S-81	Wool (T-541)	45 cm	67,2
N-S-81	Nylon (T-365)	45 cm	87,4

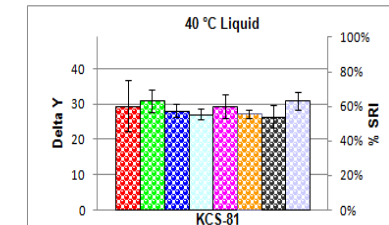
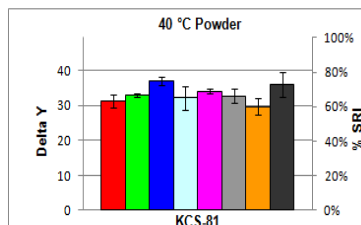
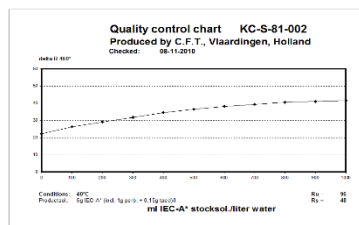
## C-S-81

Discriminative Power<sup>2</sup>: **5,1**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **16,3**



## KC-S-81

Discriminative Power<sup>2</sup>: **5,5**  
 Reproducibility Ratio: **8,0**  
 Reliability Ratio: **8,4**  
 Dynamic Range: **26,0**



# C-S-82

## Gravy from meat



A very consumer relevant fatty soil. Produced in a very reproducible method. Also lipase enzyme sensitive.

Not aged at elevated temperature.

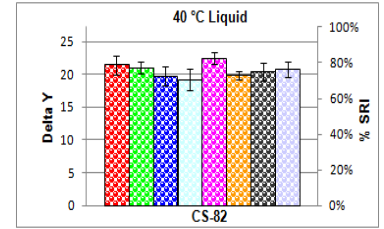
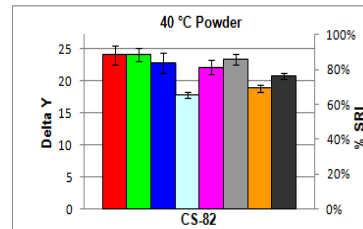
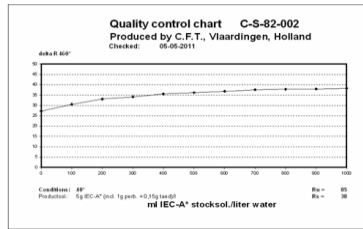


Order code:	Substrate:	Width:	Yu:
C-S-82	Cotton (CN-17)	45 cm	87,7
KC-S-82	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-82	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-82	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-82	PolyAcryl (PAN-01)	45 cm	89,3
S-S-82	Silk (T-601)	45 cm	83,9
W-S-82	Wool (T-541)	45 cm	67,2
N-S-82	Nylon (T-365)	45 cm	87,4

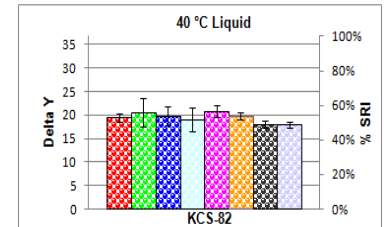
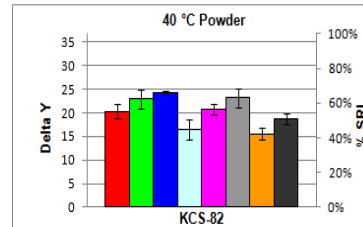
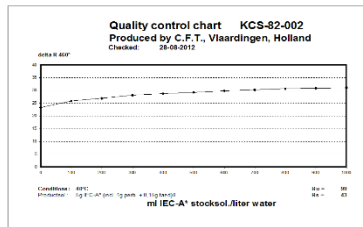
### C-S-82

Discriminative Power<sup>2</sup>: **5,4**  
 Reproducibility Ratio: **8,9**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **27,9**



### KC-S-82

Discriminative Power<sup>2</sup>: **5,5**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **26,7**

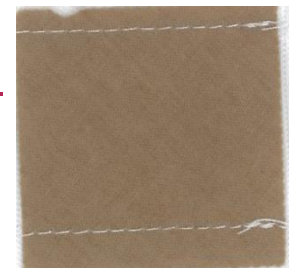


# C-S-83

## Crema di balsamico, aged



A Mediterranean sauce from thickened balsamic vinegar. A dark stain, especially suitable for pectinase enzyme sensitivity. Aged to make the stain more stubborn and to increase Discriminative Power<sup>2</sup>. Aged at elevated temperature.

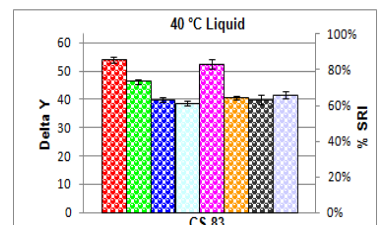
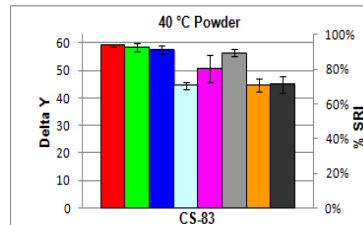
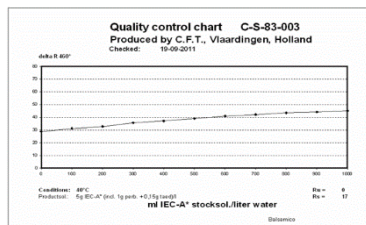


Order code:	Substrate:	Width:	Yu:
C-S-83	Cotton (CN-17)	45 cm	87,7
KC-S-83	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-83	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-83	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-83	PolyAcryl (PAN-01)	45 cm	89,3
S-S-83	Silk (T-601)	45 cm	83,9
W-S-83	Wool (T-541)	45 cm	67,2
N-S-83	Nylon (T-365)	45 cm	87,4

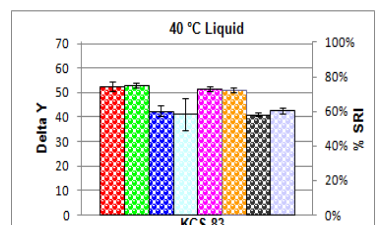
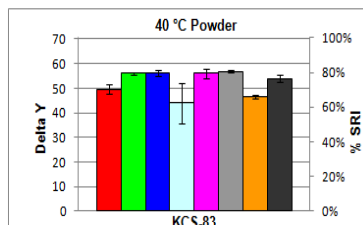
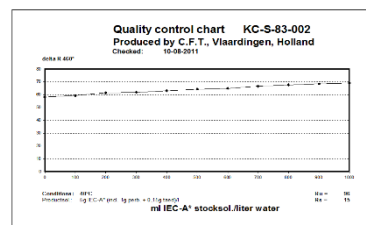
### C-S-83

Discriminative Power<sup>2</sup>: **7,0**  
 Reproducibility Ratio: **8,8**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **37,4**



### KC-S-83

Discriminative Power<sup>2</sup>: **6,8**  
 Reproducibility Ratio: **8,2**  
 Reliability Ratio: **8,4**  
 Dynamic Range: **31,2**



Order code:	Substrate:	Width:	Yu:
C-S-84	Cotton (CN-17)	45 cm	87,7
KC-S-84	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-84	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-84	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-84	PolyAcryl (PAN-01)	45 cm	89,3
S-S-84	Silk (T-601)	45 cm	83,9
W-S-84	Wool (T-541)	45 cm	67,2
N-S-84	Nylon (T-365)	45 cm	87,4

**C-S-84**

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**

This stain is no longer available

**KC-S-84**

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**

C-S-87 is an alternative for this stain

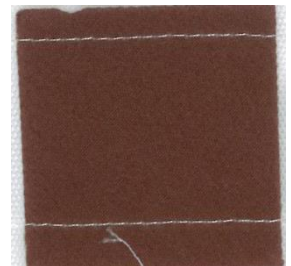
**C-S-85**

Blood, sheep's, double application, slightly aged ★<sup>P</sup>



Double applied blood to increase the Discriminative Power<sup>2</sup> of this testmaterial. Suitable for protease testing.

Slightly aged at elevated temperature.

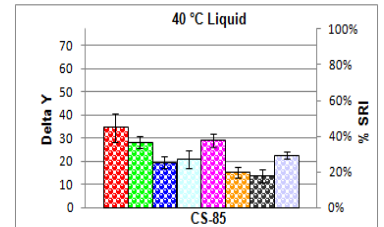
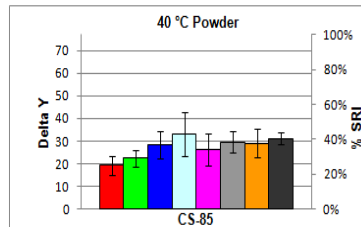
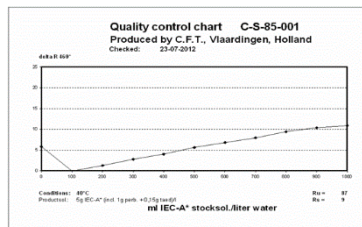


Order code:	Substrate:	Width:	Yu:
C-S-85	Cotton (CN-17)	45 cm	87,7
KC-S-85	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-85	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-85	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-85	PolyAcryl (PAN-01)	45 cm	89,3
S-S-85	Silk (T-601)	45 cm	83,9
W-S-85	Wool (T-541)	45 cm	67,2
N-S-85	Nylon (T-365)	45 cm	87,4

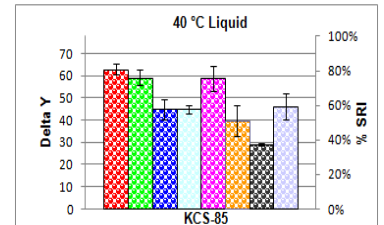
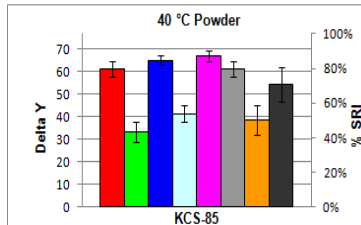
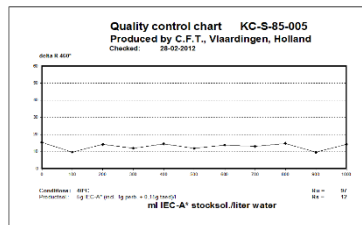
**C-S-85**

Discriminative Power<sup>2</sup>: **6,9**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **5,1**  
 Dynamic Range: **27,2**



**KC-S-85**

Discriminative Power<sup>2</sup>: **8,0**  
 Reproducibility Ratio: **9,3**  
 Reliability Ratio: **6,9**  
 Dynamic Range: **49,4**



# C-S-86

## Oyster sauce



A sauce that very common in the Asian kitchen, making this a regionally relevant stains.

Not aged at elevated temperature.

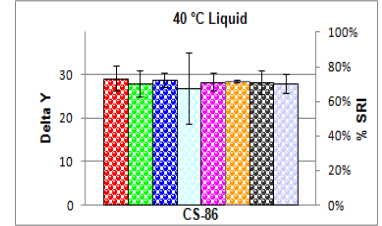
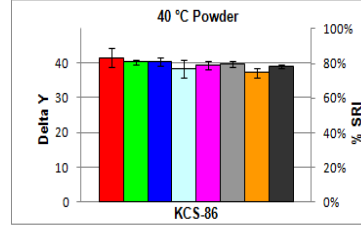
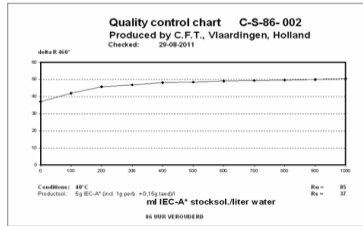


Order code:	Substrate:	Width:	Yu:
C-S-86	Cotton (CN-17)	45 cm	87,7
KC-S-86	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-86	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-86	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-86	PolyAcryl (PAN-01)	45 cm	89,3
S-S-86	Silk (T-601)	45 cm	83,9
W-S-86	Wool (T-541)	45 cm	67,2
N-S-86	Nylon (T-365)	45 cm	87,4

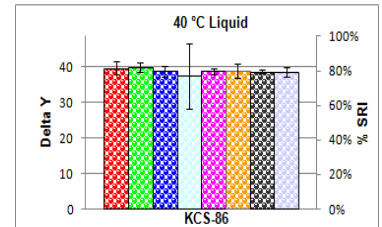
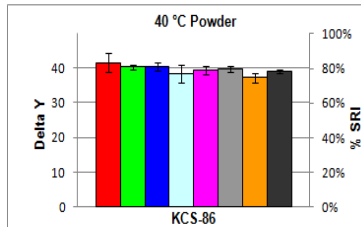
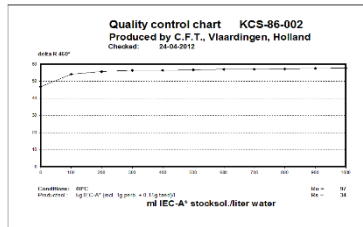
### C-S-86

Discriminative Power<sup>2</sup>: **4,9**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **13,5**



### KC-S-86

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **8,7**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **16,2**



# C-S-87

## Chinese chili sauce



A hot sauce that is very common in the Chinese kitchen, making this a regionally relevant stain.

Not aged at elevated temperature.

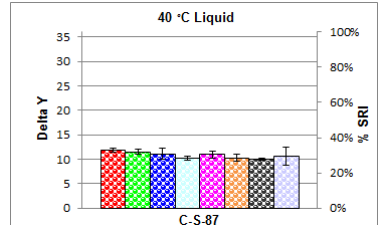
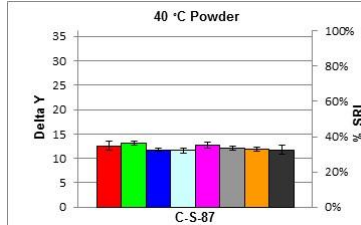
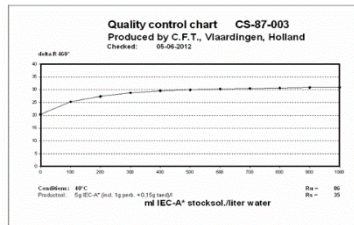


Order code:	Substrate:	Width:	Yu:
C-S-87	Cotton (CN-17)	45 cm	87,7
KC-S-87	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-87	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-87	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-87	PolyAcryl (PAN-01)	45 cm	89,3
S-S-87	Silk (T-601)	45 cm	83,9
W-S-87	Wool (T-541)	45 cm	67,2
N-S-87	Nylon (T-365)	45 cm	87,4

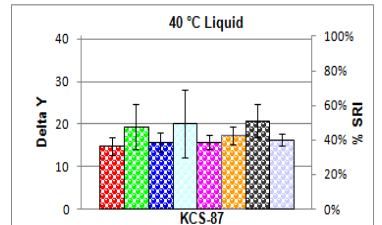
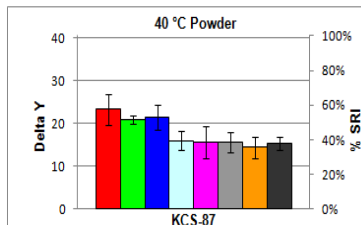
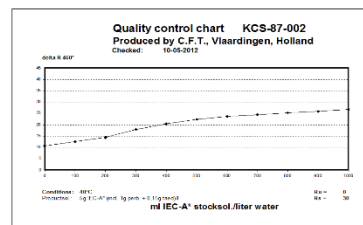
### C-S-87

Discriminative Power<sup>2</sup>: **4,8**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,6**  
 Dynamic Range: **17,5**



### KC-S-87

Discriminative Power<sup>2</sup>: **5,6**  
 Reproducibility Ratio: **8,2**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **30,4**



# C-S-87S Chinese garlic chili sauce



A hot sauce containing garlic that is very common in the Chinese kitchen, making this a regionally relevant stain.

Not aged at elevated temperature.

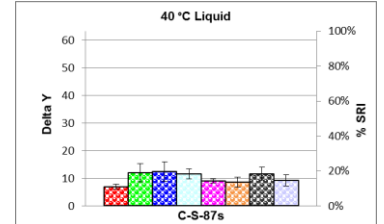
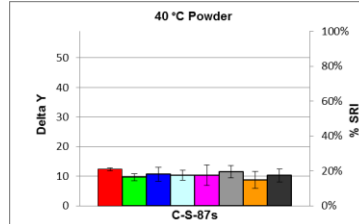
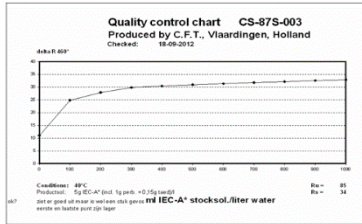


Order code:	Substrate:	Width:	Yu:
C-S-87s	Cotton (CN-17)	45 cm	87,7
KC-S-87s	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-87s	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-87s	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-87s	PolyAcryl (PAN-01)	45 cm	89,3
S-S-87s	Silk (T-601)	45 cm	83,9
W-S-87s	Wool (T-541)	45 cm	67,2
N-S-87s	Nylon (T-365)	45 cm	87,4

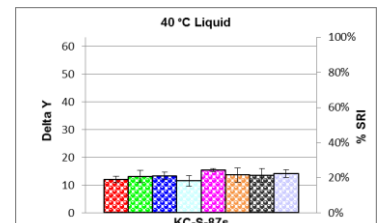
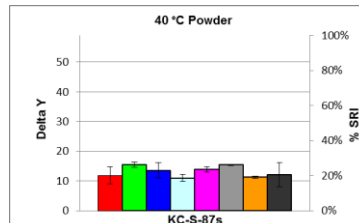
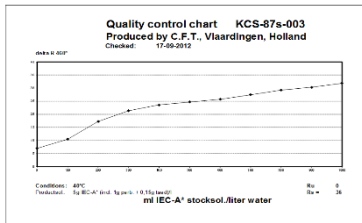
## C-S-87s

Discriminative Power<sup>2</sup>: **5,1**  
 Reproducibility Ratio: **8,0**  
 Reliability Ratio: **9,0**  
 Dynamic Range: **21,5**



## KC-S-87s

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **8,7**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **18,0**



# C-S-88 Indian curry



Stain according to the Indian Standard for machine testing.

Not aged at elevated temperature.

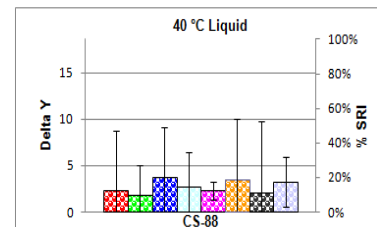
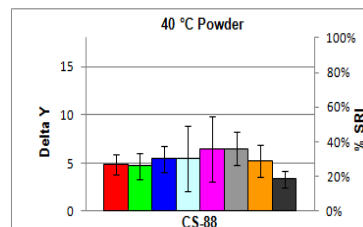
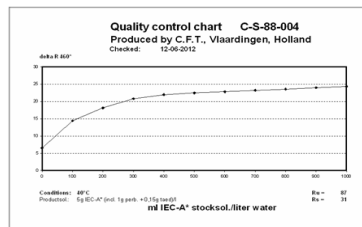


Order code:	Substrate:	Width:	Yu:
C-S-88	Cotton (CN-11)	45 cm	89,1
KC-S-88	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-88	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-88	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-88	PolyAcryl (PAN-01)	45 cm	89,3
S-S-88	Silk (T-601)	45 cm	83,9
W-S-88	Wool (T-541)	45 cm	67,2
N-S-88	Nylon (T-365)	45 cm	87,4

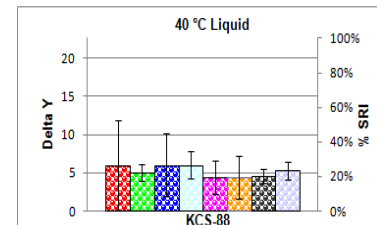
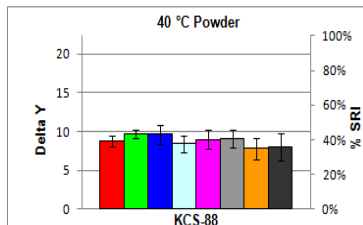
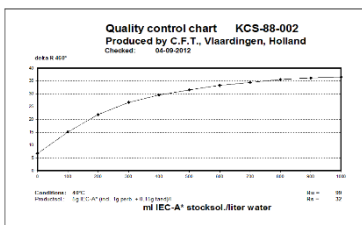
## C-S-88

Discriminative Power<sup>2</sup>: **4,8**  
 Reproducibility Ratio: **7,3**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **29,6**



## KC-S-88

Discriminative Power<sup>2</sup>: **4,5**  
 Reproducibility Ratio: **8,1**  
 Reliability Ratio: **8,5**  
 Dynamic Range: **30,6**



# C-S-89

## Chinese hot pot



Common chicken dish in the Chinese kitchen, making this a regionally relevant stain.

Not aged at elevated temperature.

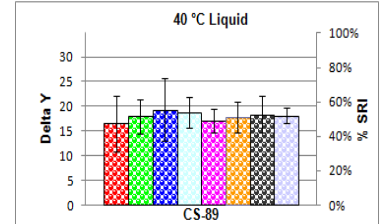
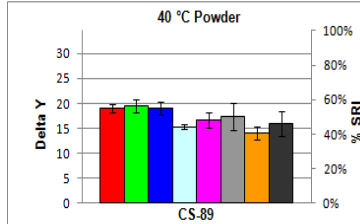
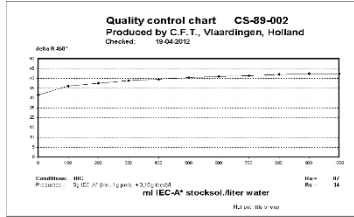


Order code:	Substrate:	Width:	Yu:
C-S-89	Cotton (CN-17)	45 cm	87,7
KC-S-89	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-89	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-89	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-89	PolyAcryl (PAN-01)	45 cm	89,3
S-S-89	Silk (T-601)	45 cm	83,9
W-S-89	Wool (T-541)	45 cm	67,2
N-S-89	Nylon (T-365)	45 cm	87,4

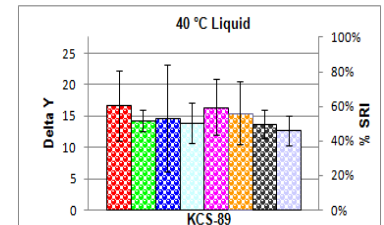
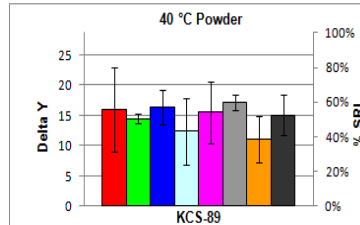
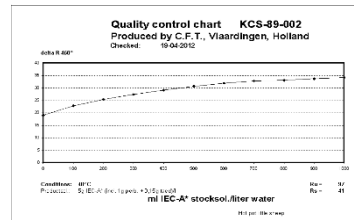
### C-S-89

Discriminative Power<sup>2</sup>: **5,1**  
 Reproducibility Ratio: **8,0**  
 Reliability Ratio: **8,1**  
 Dynamic Range: **17,0**



### KC-S-89

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **6,9**  
 Reliability Ratio: **7,9**  
 Dynamic Range: **25,5**



# C-S-89S

## Chinese hot pot sateh



Dish with sateh sauce, common in the Chinese kitchen, making this a regionally relevant stain.

Not aged at elevated temperature.

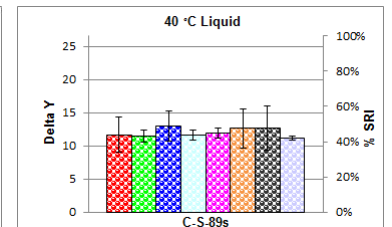
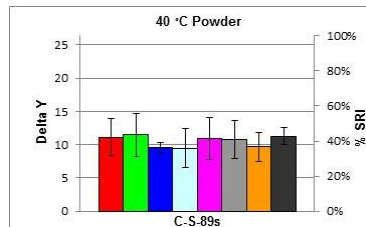
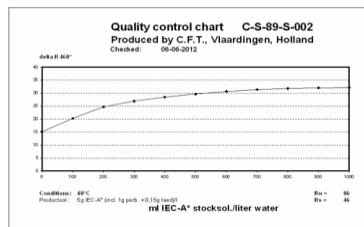


Order code:	Substrate:	Width:	Yu:
C-S-89S	Cotton (CN-17)	45 cm	87,7
KC-S-89S	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-89S	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-89S	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-89S	PolyAcryl (PAN-01)	45 cm	89,3
S-S-89S	Silk (T-601)	45 cm	83,9
W-S-89S	Wool (T-541)	45 cm	67,2
N-S-89S	Nylon (T-365)	45 cm	87,4

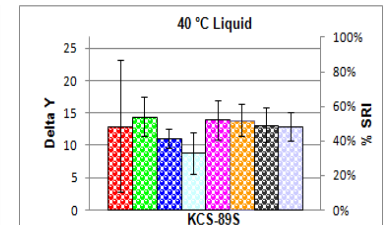
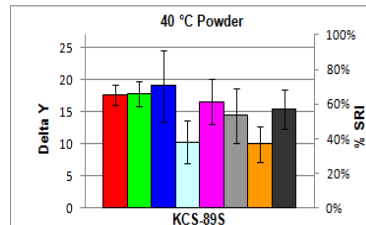
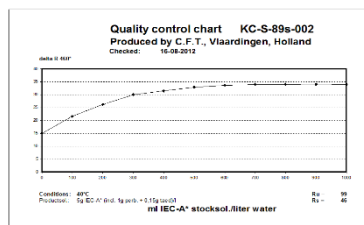
### C-S-89S

Discriminative Power<sup>2</sup>: **4,7**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **17,5**



### KC-S-89S

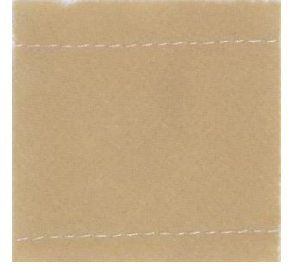
Discriminative Power<sup>2</sup>: **5,7**  
 Reproducibility Ratio: **8,3**  
 Reliability Ratio: **8,2**  
 Dynamic Range: **36,4**





# C-S-90

## Soy sauce with starch



Soy sauce with added starch to make the stain more amylase responsive.

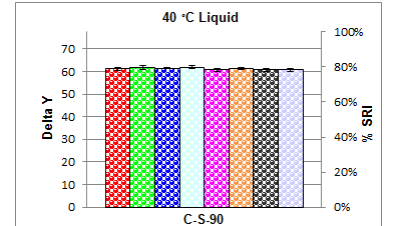
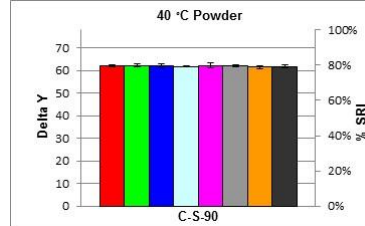
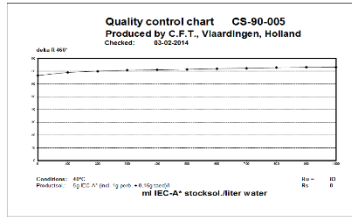
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-90	Cotton (CN-17)	45 cm	87,7
KC-S-90	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-90	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-90	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-90	PolyAcryl (PAN-01)	45 cm	89,3
S-S-90	Silk (T-601)	45 cm	83,9
W-S-90	Wool (T-541)	45 cm	67,2
N-S-90	Nylon (T-365)	45 cm	87,4

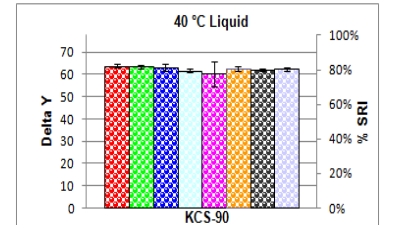
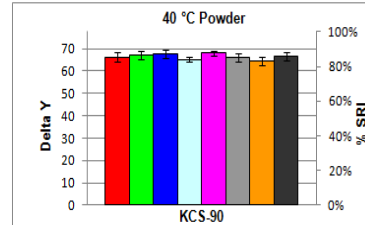
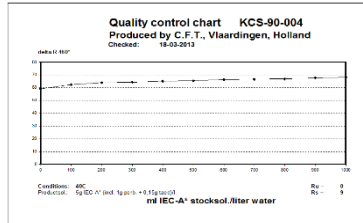
### C-S-90

Discriminative Power<sup>2</sup>: **4,5**  
 Reproducibility Ratio: **7,9**  
 Reliability Ratio: **9,6**  
 Dynamic Range: **4,7**



### KC-S-90

Discriminative Power<sup>2</sup>: **4,9**  
 Reproducibility Ratio: **7,5**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **10,4**



# C-S-91

## Minced meat



Soil with 50% beef and 50% pork meat. With full egg, as is common in minced meat recipes.

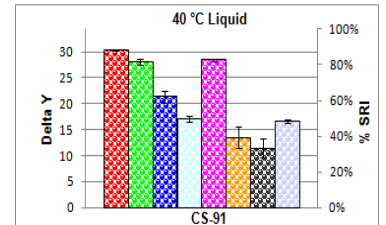
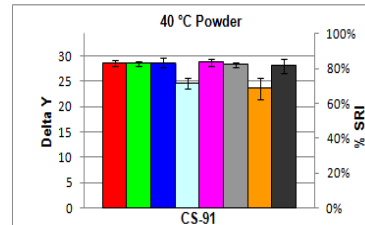
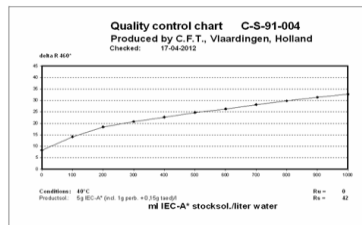
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-91	Cotton (CN-17)	45 cm	87,7
KC-S-91	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-91	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-91	Polyester (W-30 A)	45 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-S-91	PolyAcryl (PAN-01)	45 cm	89,3
S-S-91	Silk (T-601)	45 cm	83,9
W-S-91	Wool (T-541)	45 cm	67,2
N-S-91	Nylon (T-365)	45 cm	87,4

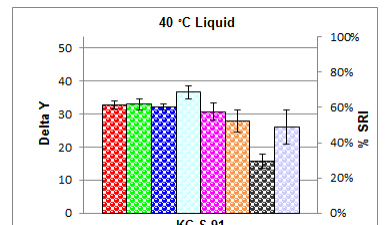
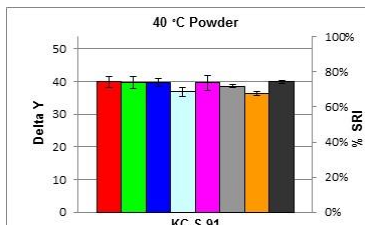
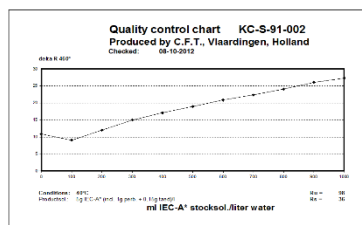
### C-S-91

Discriminative Power<sup>2</sup>: **6,4**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **58,0**



### KC-S-91

Discriminative Power<sup>2</sup>: **6,2**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **47,8**



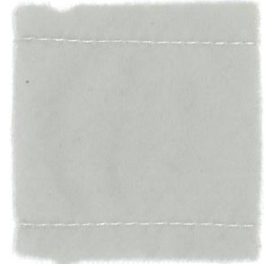
# C-S-92

## Vegetable fat with carbon black



Hard vegetable frying fat of mixed sources with pigment.

Not aged at elevated temperature.

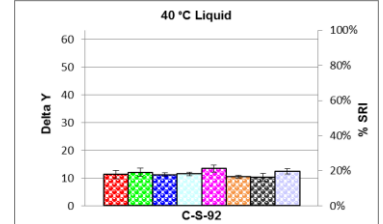
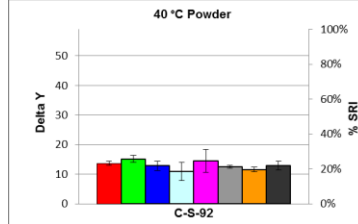
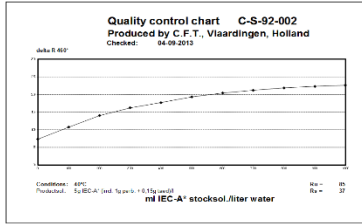


Order code:	Substrate:	Width:	Yu:
C-S-92	Cotton (T-400)	45 cm	88,9
KC-S-92	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-92	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-92	Polyester (W-30 A)	45 cm	88,4

Order code:	Substrate:	Width:	Yu:
PA-S-92	PolyAcryl (PAN-01)	45 cm	89,3
S-S-92	Silk (T-601)	45 cm	83,9
W-S-92	Wool (T-541)	45 cm	67,2
N-S-92	Nylon (T-365)	45 cm	87,4

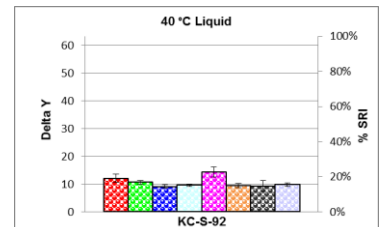
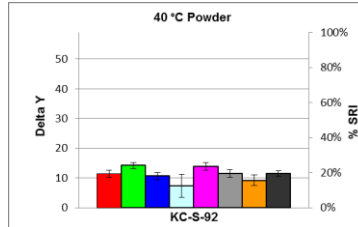
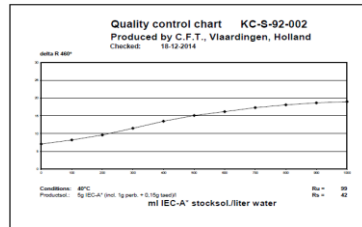
### C-S-92

Discriminative Power<sup>2</sup>: **4,9**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,1**  
 Dynamic Range: **10,0**



### KC-S-92

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **8,9**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **41,6**



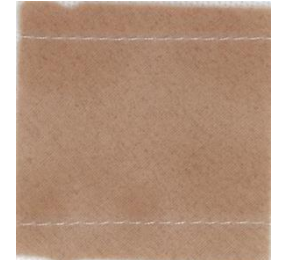
# C-S-93

## Chocolate with starch



Mix of rice starch (porridge) with chocolate as natural colourant.

Not aged at elevated temperature

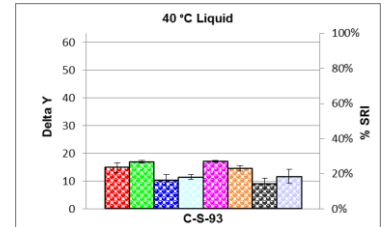
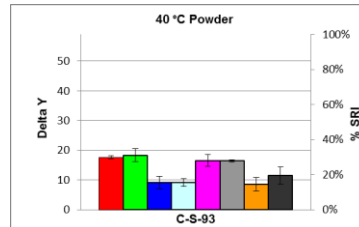
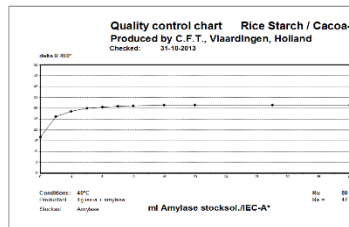


Order code:	Substrate:	Width:	Yu:
C-S-93	Cotton (T-400)	45 cm	88,9
KC-S-93	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-93	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-93	Polyester	45 cm	

Order code:	Substrate:	Width:	Yu:
PA-S-93	PolyAcryl (PAN-01)	45 cm	89,3
S-S-93	Silk (T-601)	45 cm	83,9
W-S-93	Wool (T-541)	45 cm	67,2
N-S-93	Nylon (T-365)	45 cm	87,4

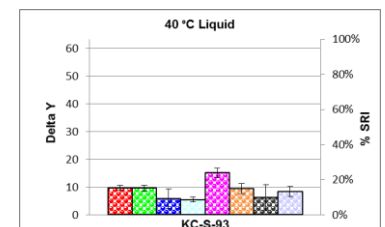
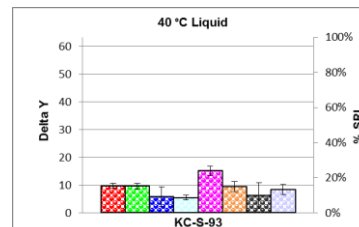
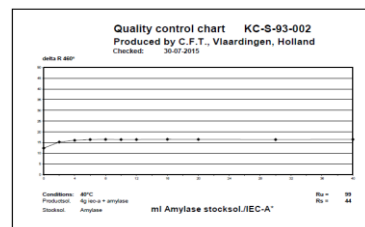
### C-S-93

Discriminative Power<sup>2</sup>: **6,1**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **9,3**  
 Dynamic Range: **28,7**



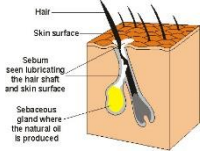
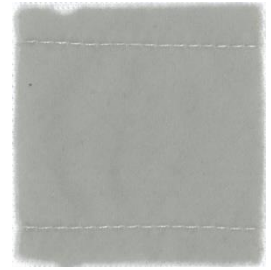
### KC-S-93

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **44,8**



# C-S-94

Sebum/dust, based on ASTM 4265-98



Sebum/dust soil mix based on ASTM 4265-98. One of the most sensitive body soils.

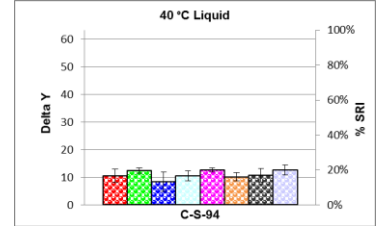
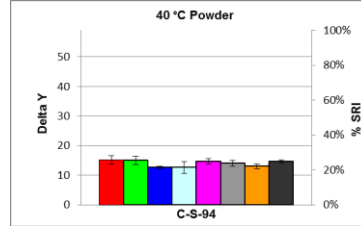
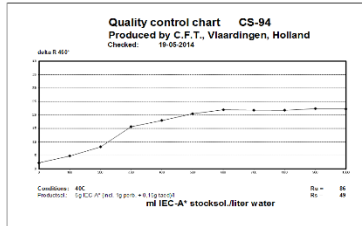
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-94	Cotton (CN-11)	45 cm	89,1
KC-S-94	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-94	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-94	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-94	PolyAcryl (PAN-01)	45 cm	89,3
S-S-94	Silk (T-601)	45 cm	83,9
W-S-94	Wool (T-541)	45 cm	67,2
N-S-94	Nylon (T-365)	45 cm	87,4

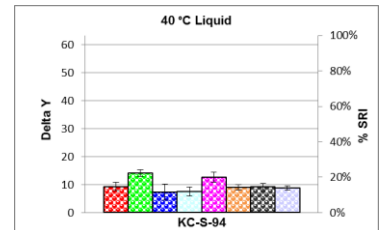
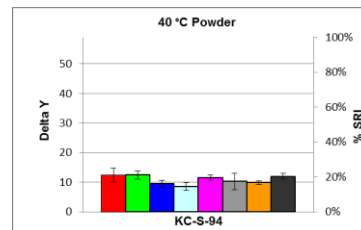
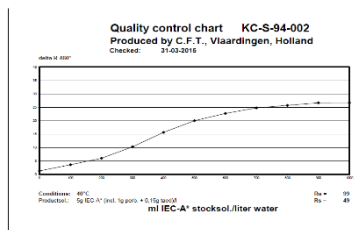
## C-S-94

Discriminative Power<sup>2</sup>: **5,1**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **18,7**



## KC-S-94

Discriminative Power<sup>2</sup>: **5,3**  
 Reproducibility Ratio: **9,2**  
 Reliability Ratio: **9,2**  
 Dynamic Range: **17,3**



# C-S-95

Collar stain



Consumer realistic body soil, developed to correlate with real life collar stains. Ingredients based on chromatographic analysis of a real life stain. This stain is mentioned as a polyester/cotton stain, as shirts are mostly made of Polyester/Cotton. Not aged at elevated temperature.

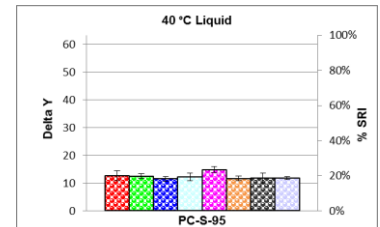
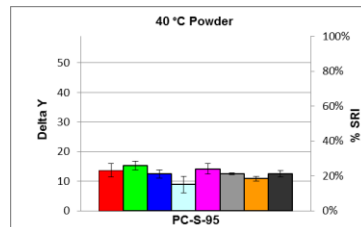
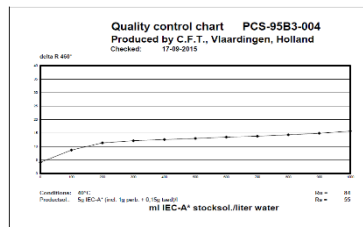


Order code:	Substrate:	Width:	Yu:
C-S-95	Cotton (T-400)	45 cm	88,9
KC-S-95	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-95	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-95	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-95	PolyAcryl (PAN-01)	45 cm	89,3
S-S-95	Silk (T-601)	45 cm	83,9
W-S-95	Wool (T-541)	45 cm	67,2
N-S-95	Nylon (T-365)	45 cm	87,4

## PC-S-95

Discriminative Power<sup>2</sup>: **5,2**  
 Reproducibility Ratio: **9,4**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **20,4**



## KC-S-95

Discriminative Power<sup>2</sup>: **N/A**  
 Reproducibility Ratio: **N/A**  
 Reliability Ratio: **N/A**  
 Dynamic Range: **N/A**

Graphs unavailable

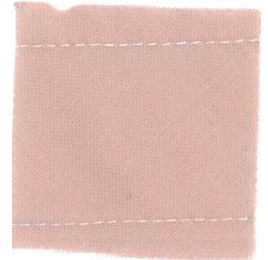
# C-S-96

## Grape juice



Grape juice contains, next to natural colourants, many different components. This makes it extremely suitable to investigate the influence of enzyme cocktails, even at low temperatures.

Not aged at elevated temperature.

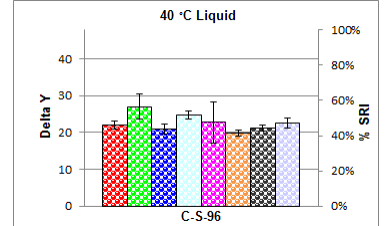
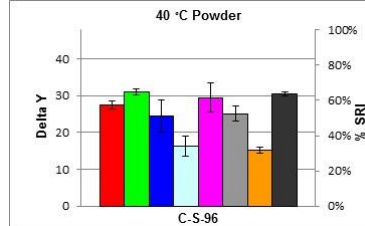
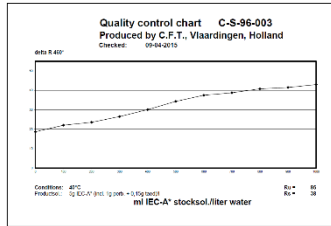


Order code:	Substrate:	Width:	Yu:
C-S-96	Cotton (CN-17)	45 cm	87,7
KC-S-96	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-96	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-96	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-96	PolyAcryl (PAN-01)	45 cm	89,3
S-S-96	Silk (T-601)	45 cm	83,9
W-S-96	Wool (T-541)	45 cm	67,2
N-S-96	Nylon (T-365)	45 cm	87,4

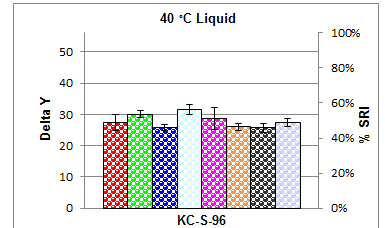
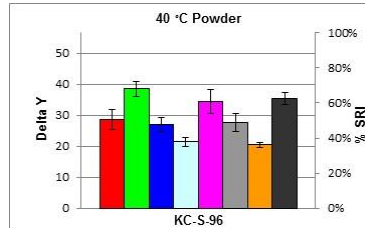
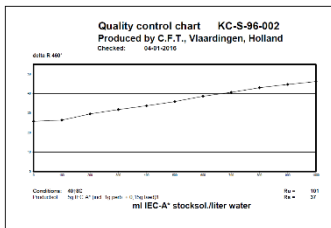
### C-S-96

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **9,5**  
 Reliability Ratio: **9,0**  
 Dynamic Range: **34,6**



### KC-S-96

Discriminative Power<sup>2</sup>: **6,3**  
 Reproducibility Ratio: **9,1**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **34,2**



# C-S-97

## Highly discriminative tea



Demonstrates tea stain removal including the effect of bleaching. Different application method in comparison with C-S-47 Tea. The stain is also much darker than C-S-47

Not aged at elevated temperature.

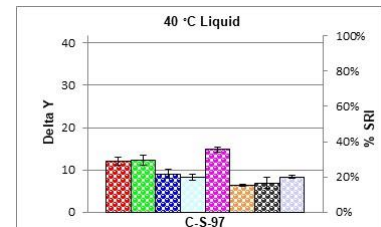
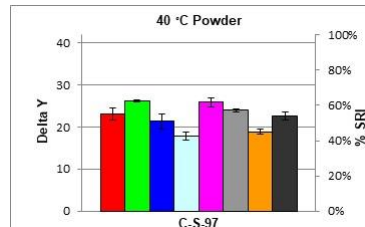
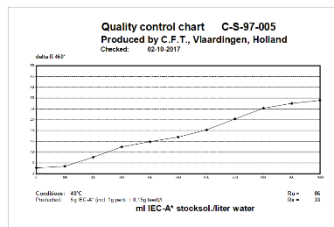


Order code:	Substrate:	Width:	Yu:
C-S-97	Cotton (CN-17)	45 cm	87,7
KC-S-97	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-97	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-97	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-97	PolyAcryl (PAN-01)	45 cm	89,3
S-S-97	Silk (T-601)	45 cm	83,9
W-S-97	Wool (T-541)	45 cm	67,2
N-S-97	Nylon (T-365)	45 cm	87,4

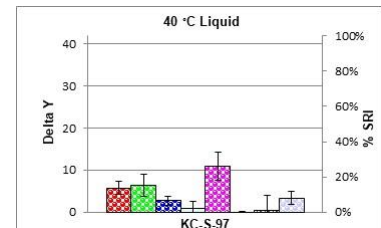
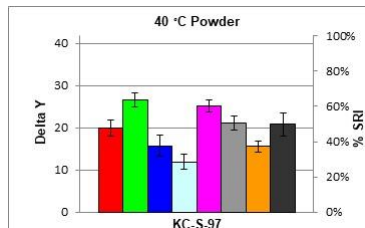
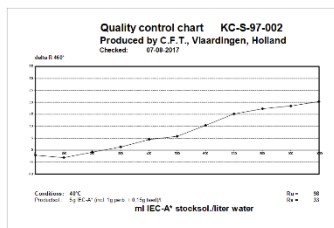
### C-S-97

Discriminative Power<sup>2</sup>: **5,9**  
 Reproducibility Ratio: **9,6**  
 Reliability Ratio: **9,4**  
 Dynamic Range: **47,4**



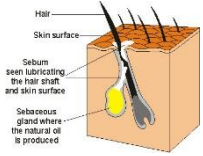
### KC-S-97

Discriminative Power<sup>2</sup>: **6,4**  
 Reproducibility Ratio: **8,5**  
 Reliability Ratio: **8,6**  
 Dynamic Range: **66,9**



# C-S-98

## Sebum JIS C9606



A sebum stain based on the recipe in the Japanese standard JIS C9606..

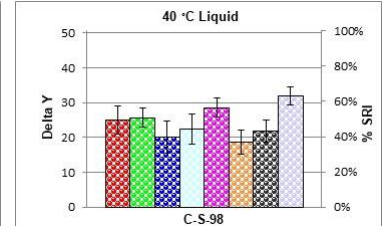
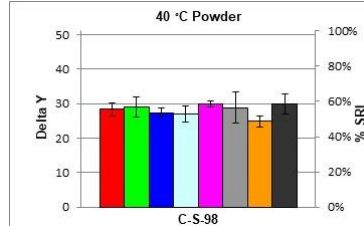
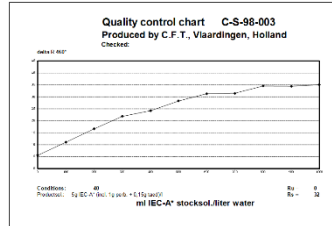
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-98	Cotton (CN-17)	45 cm	87,7
KC-S-98	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-98	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-98	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-98	PolyAcryl (PAN-01)	45 cm	89,3
S-S-98	Silk (T-601)	45 cm	83,9
W-S-98	Wool (T-541)	45 cm	67,2
N-S-98	Nylon (T-365)	45 cm	87,4

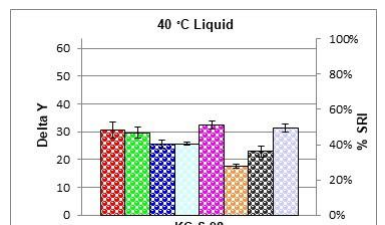
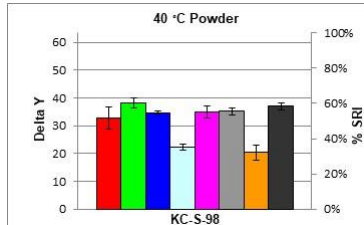
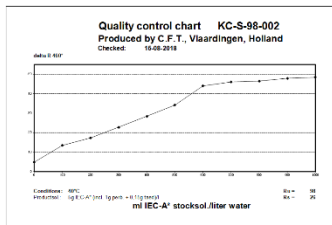
### C-S-98

Discriminative Power<sup>2</sup>: **6,0**  
 Reproducibility Ratio: **7,7**  
 Reliability Ratio: **8,8**  
 Dynamic Range: **38,3**



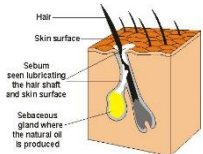
### KC-S-98

Discriminative Power<sup>2</sup>: **7,0**  
 Reproducibility Ratio: **8,2**  
 Reliability Ratio: **8,4**  
 Dynamic Range: **48,3**



# C-S-99

## Keratin



Keratin is a fibrous structural protein. Is the key structural material making up the outer layer of human skin.

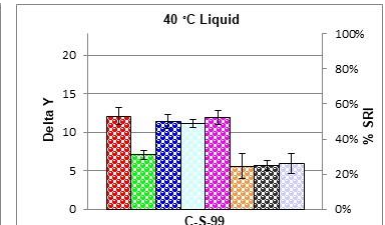
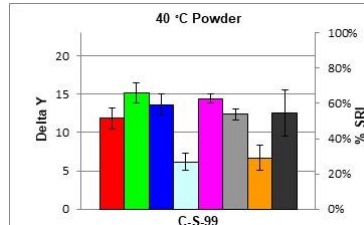
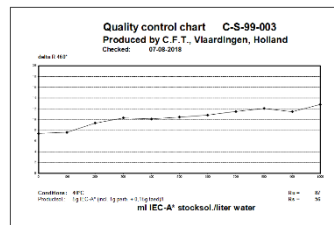
Not aged at elevated temperature.

Order code:	Substrate:	Width:	Yu:
C-S-99	Cotton (CN-11)	45 cm	89,1
KC-S-99	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-99	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-99	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-99	PolyAcryl (PAN-01)	45 cm	89,3
S-S-99	Silk (T-601)	45 cm	83,9
W-S-99	Wool (T-541)	45 cm	67,2
N-S-99	Nylon (T-365)	45 cm	87,4

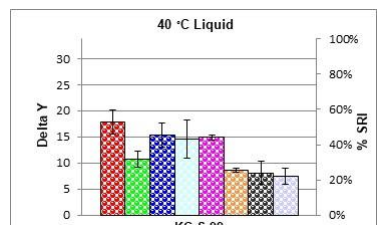
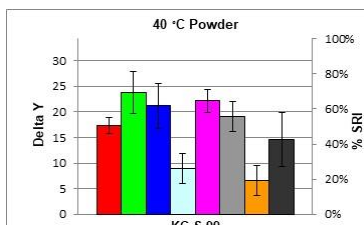
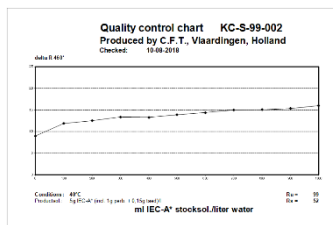
### C-S-99

Discriminative Power<sup>2</sup>: **5,9**  
 Reproducibility Ratio: **9,6**  
 Reliability Ratio: **9,5**  
 Dynamic Range: **49,2**



### KC-S-99

Discriminative Power<sup>2</sup>: **6,5**  
 Reproducibility Ratio: **8,7**  
 Reliability Ratio: **8,9**  
 Dynamic Range: **55,0**



# C-S-100 Chocolate rice pudding, aged



This chocolate rice pudding is designed to show a synergy effect of amylase and protease enzymes.

Aged at elevated temperature.



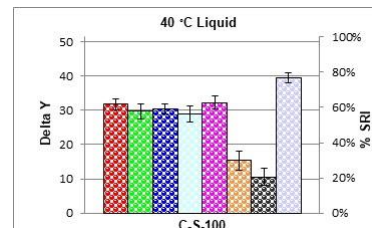
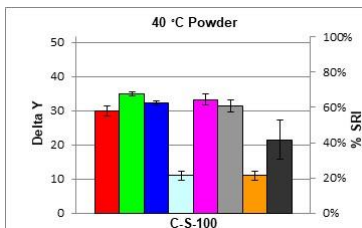
Order code:	Substrate:	Width:	Yu:
C-S-100	Cotton (CN-17)	45 cm	87,7
KC-S-100	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-100	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-100	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-100	PolyAcryl (PAN-01)	45 cm	89,3
S-S-100	Silk (T-601)	45 cm	83,9
W-S-100	Wool (T-541)	45 cm	67,2
N-S-100	Nylon (T-365)	45 cm	87,4

## C-S-100

Discriminative Power<sup>2</sup>: **7,7**  
 Reproducibility Ratio: **8,6**  
 Reliability Ratio: **9,0**  
 Dynamic Range: **59,3**

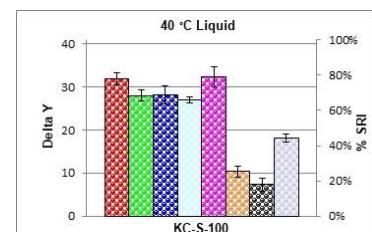
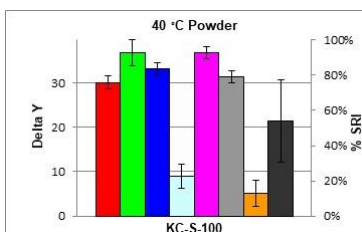
Graphs  
unavailable



## KC-S-100

Discriminative Power<sup>2</sup>: **6,9**  
 Reproducibility Ratio: **6,4**  
 Reliability Ratio: **6,9**  
 Dynamic Range: **95,2**

Graphs  
unavailable



# C-S-400 Curry, rice, milk



This curry, rice, milk stain is designed to show a synergy effect of amylase and protease enzymes.

Not aged at elevated temperature.



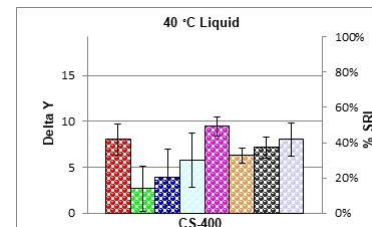
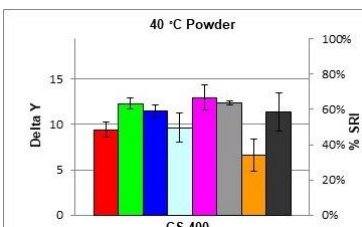
Order code:	Substrate:	Width:	Yu:
C-S-400	Cotton (CN-17)	45 cm	87,7
KC-S-400	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-400	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-400	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-400	PolyAcryl (PAN-01)	45 cm	89,3
S-S-400	Silk (T-601)	45 cm	83,9
W-S-400	Wool (T-541)	45 cm	67,2
N-S-400	Nylon (T-365)	45 cm	87,4

## C-S-400

Discriminative Power<sup>2</sup>: **n/a**  
 Reproducibility Ratio: **n/a**  
 Reliability Ratio: **n/a**  
 Dynamic Range: **n/a**

Graphs  
unavailable



## KC-S-400

Discriminative Power<sup>2</sup>: **n/a**  
 Reproducibility Ratio: **n/a**  
 Reliability Ratio: **n/a**  
 Dynamic Range: **n/a**

Graphs unavailable

# C-S-406 Balsamic salad dressing

★<sup>A</sup> ★<sup>C</sup>



A stain made from a balsamic salad dressing that is responsive to amylase and mannanase enzymes.

Not aged at elevated temperature.



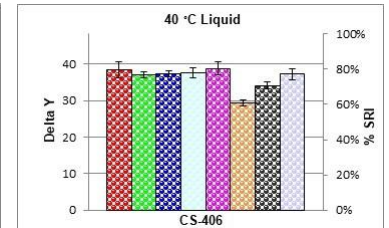
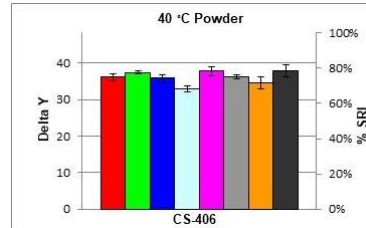
Order code:	Substrate:	Width:	Yu:
C-S-406	Cotton (CN-17)	45 cm	87,7
KC-S-406	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-406	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-406	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-406	PolyAcryl (PAN-01)	45 cm	89,3
S-S-406	Silk (T-601)	45 cm	83,9
W-S-406	Wool (T-541)	45 cm	67,2
N-S-406	Nylon (T-365)	45 cm	87,4

## C-S-406

Discriminative Power<sup>2</sup>: n/a  
 Reproducibility Ratio: n/a  
 Reliability Ratio: n/a  
 Dynamic Range: n/a

Graphs  
unavailable



## KC-S-406

Discriminative Power<sup>2</sup>: n/a  
 Reproducibility Ratio: n/a  
 Reliability Ratio: n/a  
 Dynamic Range: n/a

Graphs unavailable

# C-S-428 Wild rice

★<sup>A</sup>



A stain made with the starch of wild rice to show amylase effects.

Not aged at elevated temperature.



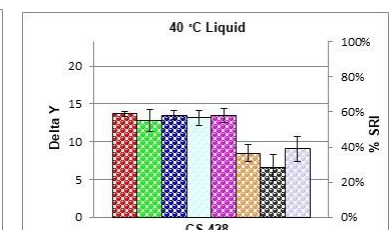
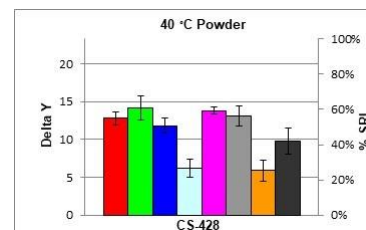
Order code:	Substrate:	Width:	Yu:
C-S-428	Cotton (CN-17)	45 cm	87,7
KC-S-428	Knitted Cotton (CN-42)	35 cm	94,5
PC-S-428	Polyester/Cotton (PCN-01)	45 cm	87,8
P-S-428	Polyester (PN-01)	45 cm	86,5

Order code:	Substrate:	Width:	Yu:
PA-S-428	PolyAcryl (PAN-01)	45 cm	89,3
S-S-428	Silk (T-601)	45 cm	83,9
W-S-428	Wool (T-541)	45 cm	67,2
N-S-428	Nylon (T-365)	45 cm	87,4

## C-S-428

Discriminative Power<sup>2</sup>: n/a  
 Reproducibility Ratio: n/a  
 Reliability Ratio: n/a  
 Dynamic Range: n/a

Graphs  
unavailable



## KC-S-428

Discriminative Power<sup>2</sup>: n/a  
 Reproducibility Ratio: n/a  
 Reliability Ratio: n/a  
 Dynamic Range: n/a

Graphs unavailable



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## Ballast Soils

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Using real consumer load is very expensive and difficult. A solution for this problem is to use clean Ballast Load with Ballast Soils. Typical Ballast load items that are available at CFT are: Bed sheets (W-IEC T11), Huckaback towels (W-IEC T12) and Pillow cases (W-IEC T13). To get closer to consumer practice you can add Ballast Soils to your wash test: C-S-30, C-S-31, C-S-63, SBL-CFT, Multi-SBL, SBL Red Clay and W-SBL 2004 (most used)



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## C-S-30

Sebum BEY, colourless

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Ballast soil item, not usable for stain removal test.

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## C-S-31

Ballast soil (mixture of 4 original IEC soils)

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Is very suitable as ballast soil load. Contains a mixture of the 4 original IEC-soils: mineral/soot, blood, wine and cocoa.

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## C-S-63

Beef fat/lard, colourless

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Purely a ballast soil item. Developed to add more fat and oil to the wash load. Not suitable to perform assessments on.

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## SBL-CFT

Soil ballast sheets

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These soil ballast sheets are soiled with a soil mixture which is representative for the soil present in consumer wash loads. These sheets should be added to a wash test with clean ballast load to simulate the consumer wash environment. Comparable to W-SBL 2004. Focussed on body soil.

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## Multi-SBL

Multi Soil Ballast Load

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Soil Ballast Load with a completely different background compared to W-SBL 2004. Multi-SBL is a mix of 20 different components, like tea, oil, clay, starch, gums etc., which all challenge different parts of the detergent's performance (resp. bleach, surfactants and enzymes). The presence of particles makes this a suitable addition in (anti-)greying testing.

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## SBL Red Clay

Soil Ballast Load, with red clay

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Another Soil Ballast Load, focussed on particles which cause redepositioning.

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## W-SBL 2004

WFK Soil Ballast Load

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












These soil ballast sheets are soiled with a soil mixture which is representative for the soil present in consumer wash loads. These sheets should be added to a wash test with clean ballast load to simulate the consumer wash environment. Focussed on body soil.

## Index

Code	Description	Code	Description		
C-S-13	Apple juice, aged	31	C-S-51	Coffee with milk, aged	58
C-S-59	Asian food stain	63	C-S-49	Coffee, black, aged	57
AS-09	Australian Standard Cotton	16	C-S-50	Coffee, black, espresso, aged	57
C-S-77B	Baby food banana/strawberry	73	C-S-95	Collar stain	83
C-S-77	Baby food carrot/potato	73	C-S-26	Corn starch, coloured	40
C-S-406	Balsamic dressing	87	C-S-126	Corn starch, coloured, aged	42
C-S-64	Beef fat with carbon black	66	C-S-226	Corn starch, coloured, double soil load	44
C-S-61	Beef fat, coloured with Sudan red	64	C-S-83	Crema di balsamico, aged	76
C-S-61B	Beef fat, coloured with violet dye	64	C-S-34	Curry	47
C-S-15	Bil(blue)berry juice	32	C-BC-04	Curry for bleach	19
C-S-115	Bil(blue)berry juice, not aged	32	C-S-400	Curry, rice, milk	86
C-S-41	Black laboratory clay	51	C-S-65	Dirty Motor Oil (DMO)	66
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C-S-112	Blackcurrant juice	30	C-S-36	Egg yolk with carbon black	48
C-S-12	Blackcurrant juice, aged	30	C-S-38	Egg yolk with carbon black, aged	49
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C-05	Blood, Milk, Ink (BMI)	11	C-S-72	Forest fruit ice cream	70
C-105	Blood, Milk, less Ink	11	C-S-46	Frying fat, used	54
C-S-85	Blood, sheep's, double application, aged	77	C-S-46B	Frying fat, used, coloured with violet dye	55
C-S-101	Blood, slightly aged	22	C-S-37	Full egg with carbon black	49
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C-S-87	Chinese chili sauce	78	C-S-08	Grass, extract	27
C-S-87S	Chinese garlic chili sauce	79	C-S-108	Grass, not aged	27
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C-S-89S	Chinese hot pot sateh	80	C-S-80	Grass/mud	75
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C-S-144	Chocolate drink, pure, not aged	53	C-S-43	Guar gum with carbon black	52
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C-03	Chocolate milk with carbon black	10	C-S-97	Highly discriminative tea	84
C-S-70	Chocolate mousse	69	C-S-76	Household dust	72
C-S-170	Chocolate mousse, aged	69	C-S-88	Indian curry	79
C-S-69	Chocolate pudding	68	C-S-81	Jam, forest fruit	75
C-S-100	Chocolate rice pudding	86	C-S-99	Keratin	85
C-S-145	Chocolate soymilk drink	54	C-S-22	Kiwi juice, aged	37
C-S-45	Chocolate soymilk drink, aged	53	C-S-66	Lanoline with carbon black	67
C-S-56	Coca Cola ,aged	61	C-S-62	Lard, coloured with Sudan red	65
C-S-102	Cocoa	23	C-S-62B	Lard, coloured with violet dye	65
C-S-02	Cocoa, aged	23	C-S-116	Lipstick, diluted, pink	33
C-BC-02	Coffee for bleach	18	C-S-216	Lipstick, diluted, red	34
C-S-52	Coffee with cream, aged	58	C-S-16	Lipstick, pink	33

Code	Description	Code	Description
C-S-73	Locustbeangum with pigment	71	C-S-78 Soybean oil with pigment 74
C-S-23	Mango juice, aged	38	C-S-60 Spaghetti sauce with beef 63
C-S-05S	Mayonnaise with carbon black	25	C-S-25 Spinach concentrate 39
C-11	Milk with carbon black	14	C-S-42 Standard clay 51
C-S-91	Minced meat	81	C-S-93 Starch, coloured with chocolate 82
C-01	Mineral oil with carbon black	9	C-BC-06 Strawberry for bleach 20
C-07	Motor oil with carbon black	12	C-S-71 Strawberry ice cream 70
C-S-67	Mustard	67	C-S-18 Strawberry juice, aged 35
C-S-23S	No longer available	38	C-S-29 Tapioca starch, coloured 41
C-S-84	No longer available	77	C-S-129 Tapioca starch, coloured, aged 43
C-S-154	Oatmeal, coloured with chocolate	60	C-S-229 Tapioca starch, coloured, double soil load 45
C-S-54	Oatmeal, coloured with chocolate, aged	60	C-BC-03 Tea for bleach (low temperatures) 19
C-02	Olive oil with carbon black	9	C-BC-01 Tea for bleach (med./high temperatures) 18
C-04	Olive oil with chlorophyll	10	C-S-48 Tea with milk, aged 56
C-S-55	Orange juice, aged	61	C-S-47 Tea, aged 55
C-S-86	Oyster sauce	78	C-S-147 Tea, not aged 56
C-S-19	Peach juice, aged	35	C-S-74 Tobacco 71
C-S-53	Pectate with carbon black	59	C-S-20 Tomato 36
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C-08	Pigment with oil (above 60°C)	13	C-S-79 Tomato, Napolina 74
C-09	Pigment with oil (below 60°C)	13	C-S-92 Vegetable fat with carbon black 82
C-06	Pigment with oil, for industrial laundry	12	C-S-428 Wild rice 87
C-12	Pigment, oil, low milk content	15	C-S-103 Wine 24
C-10	Pigment, Oil, Milk (POM)	14	C-S-03 Wine, aged 24
C-S-27	Potato starch, coloured	40	C-S-40 Yellow modelling clay 50
C-S-127	Potato starch, coloured, aged	42	
C-S-227	Potato starch, coloured, double soil	44	
C-BC-05	Red beet for bleach	20	
C-S-57	Red beet, aged	62	
C-S-24	Red pepper	39	
C-S-11	Redcurrant juice, aged	29	
C-S-28	Rice starch, coloured	41	
C-S-128	Rice starch, coloured, aged	43	
C-S-228	Rice starch, coloured, double soil load	45	
C-S-06	Salad dressing with natural black	26	
C-S-04	Saturated with coloured olive oil	25	
C-S-32	Sebum BEY with carbon black	46	
C-S-98	Sebum JIS C9606	85	
C-S-33	Sebum TEFO with carbon black	47	
C-S-94	Sebum/dust, based on ASTM 4265-98	83	
C-13	Soot, water solvable thickening agent	15	
C-S-90	Soy sauce with starch	81	
C-S-58	Soy sauce, aged	62	

## Application legend

	Measurement of <b>General Detergency</b> .
	Measurement of <b>Proteolytic Enzyme</b> activity.
	Measurement of <b>Amylase Enzyme</b> activity.
	Measurement of <b>Lipase Enzyme</b> activity.
	Measurement of the <b>Enzyme Cocktail</b> activity.
	Measurement of the <b>Mannanase Enzyme</b> activity.
	Measurement of <b>Stain Removal</b> , mostly difficult to remove.
	Measurement of <b>Bleach Performance</b> .
	Measurement of <b>Oily Substances</b> removal.
	Measurement of <b>Particle</b> removal.
	Especially suitable for <b>Low Temperature</b> performance measurement.
	Especially suitable for <b>High Temperature</b> performance measurement.
	Measurement of <b>Builder Action</b> .
	Measurement of <b>Agitation</b> influence.
	Suitable for <b>Industrial Laundry</b> .
	Measurement of the <b>Burn-in Effect</b> .
	Suitable for <b>Dry-cleaning</b> tests.
	<b>Ballast Soil</b> .