

# A.I.S.E LAUNDRY DETERGENT TESTING GUIDELINES – MINIMUM REQUIREMENTS FOR COMPARATIVE DETERGENTS TESTING

## History of Protocol updates

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### Summary

Version	Date	Comments
v.1.	February 2009	Original Stain Set
v.2.	July 2012	Due to sourcing issues for original stain recipes new (temporary) Equest <b>Red Wine</b> and new <b>Frying Fat</b> stains are included.
v.3.	June 2013	Following the v2 update, the Equest <b>Red Wine</b> stains is confirmed and additional alternative CfT <b>Red Wine</b> is included.
V.4.	July 2013	Because of suspected carcinogenic risk, used motor oil WFK 10M is replaced by <b>unused motor oil</b> WFK 10RM.
V.5.	November 2013	<b>Tea</b> and <b>Coffee</b> stains are updated to allow for less TAED sensitive alternatives because of market changes towards liquid detergents.
V.6.	May 2020	<b>Salad Dressing Balsamico</b> C-S-406 <u>replaces</u> Baby Food. <b>Grass</b> CS-07 <u>replaces</u> CS-08 and <b>Scrubbed Grass</b> WE5SGWKC is <u>added</u> . <b>Cooked Beef Fat on Polyester/Cotton</b> WE5BBPC2 <u>replaces</u> Burnt Beef on cotton. <b>Face Make Up</b> WE5FM2WKC is <u>added</u> .
V.7.	October 2020	<b>Tea</b> CS-97 is added. <b>Unused Motor Oil</b> C-01s replaces C-01.

Note: all changes made between one version to the following one are indicated in **green bold font** in the following pages.



Version: v.1. / Original Stain Set  
Date: February 2009

Stains	Standard Stains			Hand-made Stains* (ex Warwick-Equest)	Stain classes Consumer denomination/Chemical nature	
	EMPA	WFK	CFT			
Tea	EMPA 167	WFK 10J	CFT BC3		Drink/	Bleachable
Coffee		WFK 10K	CFT BC2		Drink/	Bleachable
Red wine				WE5RWWKC	Drink/	Bleachable
Fruit juice			CFT CS15		Drink/	Bleachable
Tomato puree				WE5TPWKC	Food/	Bleachable
Salad Dressing Balsamico C-S-406			Salad DrC-S-406	WE5IACBFWKC	Food/	Bleachable Enzymatic
French Squeezy Mustard				WE5FSMWKC	Food/	Bleachable Enzymatic
Chocolate		WFK 10Z	CFT CS44		Food/	Enzymatic
Grass	EMPA 164		CFT CS08		General soil/	Bleachable Enzymatic
Grass/Mud				WE5GMWKC	General soil/	Bleachable Enzymatic Particulate
Blood				WE5DASBWKC	General soil/	Enzymatic
Motor oil	EMPA 106	WFK 10 M	CFT C01		Grease, Oil/	Greasy Particulate
Frying fat (Hamburger grease)				WE5HBGBKC (blue knitted cotton)	Grease, Oil/	Greasy Enzymatic
Make up	EMPA 143/2	WFK 10MU	CFT CS17		Cosmetics/	Greasy Particulate

\* All Hand-made Stains are also available in 2.5 cm diameter. Their code number has "2.5" instead of "5"



Version: v.2.  
Date: July 2012

Stains	Standard Stains			Hand-made Stains* (ex Warwick-Equest)	Stain classes Consumer denomination/Chemical nature	
	EMPA	WFK	CFT			
Tea	EMPA 167	WFK 10J	CFT BC3		Drink/	Bleachable
Coffee		WFK 10K	CFT BC2		Drink/	Bleachable
Red wine				Replacement stain offered by Equest	Drink/	Bleachable
Fruit juice			CFT CS15		Drink/	Bleachable
Tomato puree				WE5TPWKC	Food/	Bleachable
Carrot baby food				WE5IACBFWKC	Food/	Bleachable Enzymatic
French Squeezy Mustard				WE5FSMWKC	Food/	Bleachable Enzymatic
Chocolate		WFK 10Z	CFT CS44		Food/	Enzymatic
Grass	EMPA 164		CFT CS08		General soil/	Bleachable Enzymatic
Grass/Mud				WE5GMWKC	General soil/	Bleachable Enzymatic Particulate
Blood				WE5DASBWKC	General soil/	Enzymatic
Motor oil	EMPA 106	WFK 10 M	CFT C01		Grease, Oil/	Greasy Particulate
Frying fat (Hamburger grease)				Burnt Beef WE5BBWKC (on WHITE cotton)	Grease, Oil/	Greasy Enzymatic
Make up	EMPA 143/2	WFK 10MU	CFT CS17		Cosmetics/	Greasy Particulate

\* All Hand-made Stains are also available in 2.5 cm diameter. Their code number has "2.5" instead of "5"



Version: v.3.  
Date: June 2013

Stains	Standard Stains			Hand-made Stains* (ex Warwick-Equest)	Stain classes Consumer denomination/Chemical nature	
	EMPA	WFK	CFT			
Tea	EMPA 167	WFK 10J	CFT BC3		Drink/	Bleachable
Coffee		WFK 10K	CFT BC2		Drink/	Bleachable
Red wine			CFT KC-H026	WE5RWWKC	Drink/	Bleachable
Fruit juice			CFT CS15		Drink/	Bleachable
Tomato puree				WE5TPWKC	Food/	Bleachable
Carrot baby food				WE5IACBFWKC	Food/	Bleachable Enzymatic
French Squeezy Mustard				WE5FSMWKC	Food/	Bleachable Enzymatic
Chocolate		WFK 10Z	CFT CS44		Food/	Enzymatic
Grass	EMPA 164		CFT CS08		General soil/	Bleachable Enzymatic
Grass/Mud				WE5GMWKC	General soil/	Bleachable Enzymatic Particulate
Blood				WE5DASBWKC	General soil/	Enzymatic
Motor oil	EMPA 106	WFK 10 M	CFT C01		Grease, Oil/	Greasy Particulate
Frying fat (Hamburger grease)				Burnt Beef WE5BBWKC (on WHITE cotton)	Grease, Oil/	Greasy Enzymatic
Make up	EMPA 143/2	WFK 10MU	CFT CS17		Cosmetics/	Greasy Particulate

\* All Hand-made Stains are also available in 2.5 cm diameter. Their code number has "2.5" instead of "5"



Version: v.4.  
Date: July 2013

Stains	Standard Stains			Hand-made Stains* (ex Warwick-Equest)	Stain classes Consumer denomination/Chemical nature	
	EMPA	WFK	CFT			
Tea	EMPA 167	WFK 10J	CFT BC3		Drink/	Bleachable
Coffee		WFK 10K	CFT BC2		Drink/	Bleachable
Red wine			CFT KC-H026	WE5RWWKC	Drink/	Bleachable
Fruit juice			CFT CS15		Drink/	Bleachable
Tomato puree				WE5TPWKC	Food/	Bleachable
Carrot baby food				WE5IACBFWKC	Food/	Bleachable Enzymatic
French Squeezy Mustard				WE5FSMWKC	Food/	Bleachable Enzymatic
Chocolate		WFK 10Z	CFT CS44		Food/	Enzymatic
Grass	EMPA 164		CFT CS08		General soil/	Bleachable Enzymatic
Grass/Mud				WE5GMWKC	General soil/	Bleachable Enzymatic Particulate
Blood				WE5DASBWKC	General soil/	Enzymatic
Unused motor oil	EMPA 106	WFK 10 RM	CFT C01		Grease, Oil/	Greasy Particulate
Frying fat (Hamburger grease)				Burnt Beef WE5BBWKC (on WHITE cotton)	Grease, Oil/	Greasy Enzymatic
Make up	EMPA 143/2	WFK 10MU	CFT CS17		Cosmetics/	Greasy Particulate

\* All Hand-made Stains are also available in 2.5 cm diameter. Their code number has "2.5" instead of "5"



Version: v.5.  
Date: November 2013

Stains	Standard Stains			Hand-made Stains* (ex Warwick-Equest)	Stain classes Consumer denomination/Chemical nature
Tea		WFK 10J		WE5LTWKC	Drink / Bleachable
Coffee			CFT KC- H109	WE5ECWKC	Drink / Bleachable
Red wine			CFT KC- H026	WE5RWWKC	Drink / Bleachable
Fruit juice			CFT CS15		Drink / Bleachable
Tomato puree				WE5TPWKC	Food / Bleachable
Carrot baby food				WE5IACBFWKC	Food / Bleachable Enzymatic
French Squeezy Mustard				WE5FSMWKC	Food / Bleachable Enzymatic
Chocolate		WFK 10Z	CFT CS44		Food / Enzymatic
Grass	EMPA 164		CFT CS08		General soil / Bleachable Enzymatic
Grass/Mud				WE5GMWKC	General soil / Bleachable Enzymatic Particulate
Blood				WE5DASBWKC	General soil / Enzymatic
Unused motor oil	EMPA 106	WFK 10 RM	CFT C01		Grease, Oil / Greasy Particulate
Frying fat (Hamburger grease)				Burnt Beef WE5BBWKC (on WHITE cotton)	Grease, Oil / Greasy Enzymatic
Make up	EMPA 143/2	WFK 10MU	CFT CS17		Cosmetics / Greasy Particulate

\* All Hand-made stains are also available in 2.5 cm diameter. Their code number has "2.5" instead of "5".

Besides the new stains (in green) the following stains have been deleted:

- Tea: EMPA 167, CFT BC3
- Coffee: WFK 10K, CFT BC2



Version: v.6.  
Date: May 2020

Stains	Standard Stains			Hand-made Stains* (Warwick Equest)	Stain classes Consumer denomination/ Chemical nature
Tea		WFK 10J		WE5LTWKC	Drink / Bleachable
Coffee			CFT KC-H109	WE5ECWKC	Drink / Bleachable
Red wine			CFT KC-H026	WE5RWWKC	Drink / Bleachable
Fruit juice			CFT C-S-15		Drink / Bleachable
Tomato puree				WE5TPWKC	Food / Bleachable
Salad Dressing Balsamico			C-S-406		Food / Bleachable Enzymatic
French Squeezy Mustard				WE5FSMWKC	Food / Bleachable Enzymatic
Chocolate		WFK 10Z	CFT C-S-44		Food / Enzymatic
Grass	EMPA 164		CFT C-S-07		General soil Bleachable Enzymatic
Grass/Mud				WE5GMWKC	General soil Bleachable Enzymatic Particulate
Blood				WE5DASBWKC	General soil Enzymatic
Unused motor oil	EMPA 106	WFK 10RM	CFT C-01		Grease, Oil Greasy Particulate
Cooked Beef Fat				WE5BBPC2 on Polyester/Cotton	Grease, Oil Greasy Enzymatic
Make up	EMPA 143/2	WFK 10MU	CFT C-S-17	WE5FM2WKC	Cosmetics Grease Particulate

\* All Hand-made stains are also available in 2.5 cm diameter. Their code number has "2.5" instead of "5".

The following stains have been deleted:

- Carrot Baby Food WE5IACBFWKC
- Grass CFT C-S-08
- Burnt Beef WE5BBWKC



Version v.7.  
October 2020

Stains	Standard Stains			Hand-made Stains* (Warwick Equest)	Stain classes Consumer denomination/ Chemical nature
Tea		WFK 10J	CFT C-S-97	WE5LTWKC	Drink / Bleachable
Coffee			CFT KC-H109	WE5ECWKC	Drink / Bleachable
Red wine			CFT KC-H026	WE5RWWKC	Drink / Bleachable
Fruit juice			CFT C-S-15		Drink / Bleachable
Tomato puree				WE5TPWKC	Food / Bleachable
Salad Dressing Balsamico			CFT C-S-406		Food / Bleachable Enzymatic
French Squeezy Mustard				WE5FSMWKC	Food / Bleachable Enzymatic
Chocolate		WFK 10Z	CFT C-S-44		Food / Enzymatic
Grass	EMPA 164		CFT C-S-07		General soil Bleachable Enzymatic
Grass/Mud				WE5GMWKC	General soil Bleachable Enzymatic Particulate
Blood				WE5DASBWKC	General soil Enzymatic
Unused motor oil	EMPA 106	WFK 10RM	CFT C-01s		Grease, Oil Greasy Particulate
Cooked Beef Fat				WE5BBPC2 on Polyester/Cotton	Grease, Oil Greasy Enzymatic
Make up	EMPA 143/2	WFK 10MU	CFT C-S-17	WE5FM2WKC	Cosmetics Grease Particulate

\* All Hand-made stains are also available in 2.5 cm diameter. Their code number has "2.5" instead of "5".

Tea CFT CS-97 has been added.

Unused Motor Oil CFT CFT C-01s replaces C-01 (this is a technical change).





**Version v.8.**  
**April 2023**

SBL-CFT is now also accepted as alternative to wfk-SBL2004

