CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2020

DateRun: 06/10/2020

Experimenters: Alicia McCarthy, Hayley Byra

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Ceramics

PartType: Coupon

Contaminants: Food

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To evaluate the stability and effectiveness of L'AVANT Collective Dish Soap against Dawn Dish Soap on the removal of Soil B from ceramic plates.

Experimental Procedure: Clean ceramic plates were soiled with six grams of 4009 Soil B (50% All Purpose Flour, 48% Crisco Shortening, and 2% Olive Oil) and air dried for 24 hours at room temperature (68˚F). Four millimeters of each dish soap were measured out and each were mixed with four liters of tap water heated to 120°F, which was recorded when poured sequentially into the washing basin. Twenty seconds after the reservoir was prepared, the manual cleaning method began. Each plate was washed at an angle, half submerged in the water, cleaning both the front and back sides of each plate with a sponge in a circular motion for 30 seconds. This process continued until half the surface of the wash solution showed a thin layer of foam. The number of plates cleaned as well as the final temperature of the water in the basin were recorded. This process was performed with each dish soap.

Results:

Cleaner	Initial wt of cont.	Final wt of cont.	%Cont Removed	Average % Removal
Dawn Dish Soap	6.04	-0.03	100.50	99.64
	6.07	-0.03	100.49	
	5.15	-0.93	118.06	
	5.97	0.04	99.33	
	6.05	0.10	98.35	
	6.09	0.26	95.73	
	6.12	0.23	96.24	
	6.05	0.48	92.07	
	6.04	0.24	96.03	
L'AVANT Collective Dish Soap	6.23	-0.06	100.96	96.91
	6.09	-0.03	100.49	
	6.23	0.04	99.36	
	6.03	0.18	97.01	
	6.08	0.29	95.23	
	6.20	0.72	88.39	

Plate Count

Cleaner	Initial Temperature (°F)	Final Temperature (°F)	# of Plates Washed
Dawn Dish Soap	117.00	103.00	9.00
L'AVANT Collective Dish Soap	117.00	103.00	6.00

Summary:

Substrates:	Ceramics				
Contaminants:	Food				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Procter & Gamble	Dawn Dish Detergent	0.1	99.64	☑	
L'AVANT Collective	L'AVANT Collective Dish Soap	0.1%	96.91	☑	

Conclusion:

CLEANING LABORATORY EVALUATION SUMMARY

L'AVANT Collective Dish Soap was not as effective as Dawn Dish Soap in removing Soil B from ceramic plates.