CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2019

DateRun: 12/05/2019

Experimenters: Tuan Le, Julie Nguyen, Duc Vu, Rimsha Paneru

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Ceramics

PartType: Coupon

Contaminants: Greases, Food

Cleaning Methods: Manual Wipe

Analytical Methods: Visual

Purpose: To evaluate the effectiveness of Cleanyst Free and Clear Dish soap in comparison to the Mrs. Meyers' Dish Soap.

Experimental Procedure: Clean ceramic plates were contaminated with six grams of the DCC 10 Soil B (50% Gold Medal All Purpose Flour, 48% Crisco Shortening, and 2% Olive Oil). Plates were stacked with the top plate overturned upside down to prevent the soil from drying out as it aged for one hour.

Four liters (L) of water were heated to the standard temperature of 47°C or 117°F. Four grams of product was added to a small beaker, and a small portion of the 100 mL of water was then added to the soap and swirled around to mix the soap before pouring into an empty dish bin. This process was repeated until all 100 mL of water and product were added to the dish bin.

The heated 4L of water was poured into the dish bin from a foot above the bin to create as many bubbles as possible. Each plate was washed individually on the front and back using a rotating motion with a dish cloth. The plates were kept submerged during the cleaning process in an angular position throughout the 30 second cleaning process of each plate. The endpoint was reached when half the surface of the wash solution showed a thin layer of foam. Once the endpoint was reached, the number of plates that was required to reach that endpoint was recorded with the respective product.

Results:

Product Name	Concentration	# of Plates Washed
Cleanyst Free & Clear Dish Soap	0.10%	3
Mrs. Meyers' Honeysuckle Dish Soap	0.10%	6

Summary:

Substrates:	Ceramics				
Contaminants:	Greases, Food				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Cleanyst	Cleanyst Free and Clear Dish Soap	0.1	0.00	☐	3 plates
Mrs Myers Clean Day	Mrs Meyers Liquid Dish Soap	0.1	0.00	☑	6 plates

Conclusion: Mrs. Meyers' Honeysuckle Dish Soap was more effective than the Cleanyst Free & Clear Dish Soap.