CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 10/26/2021

Experimenters: Zoe Lawson

ClientType: Lab

ProjectNumber: Project #5

Substrates: Ceramics, Plastic, Painted metal

PartType: Coupon

Contaminants: Hucker's Soil

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test Libman Multi-Surface Disinfecting Cleaner in the removal of Hucker's Soil from various substrates.

Experimental Procedure: 3 coupons of each substrate (ceramic, plastic, painted metal) were collected and their initial weights were taken. Hucker's Soil (Creamy Peanut Butter, Salted Butter, Wheat gluten, Egg Yolk, Evaporated milk, DI water, Printer's ink with boiled linseed oil, India Ink, Saline Solution) was applied to each coupon and allowed to air dry for 2 hours. After the 2 hour dry time, the weights of the newly contaminated coupons were measured. All coupons were placed into a Gardner-scrub Abrasion Tester machine. Wypall cleaning cloths were attached to each of the 3 cleaning blocks used for the test. Each Wypall cloth and all coupons received 2 sprays of the Libman Multi-Surface Disinfecting Cleaner and the Gardner-scrub Abrasion Tester was run for 20 repetitions, simulating 20 manual wipes. Once cleaning had concluded, the cleaned coupons were allowed to air dry for 24 hours. After 24 hours, the weights of the cleaned coupons were measured.

Results:

Cleaner	Substrate	Initial wt. of Cont.	Final wt. of Cont	%Cont Removed	% Average	% Overall
Libman Multi-Surface Disinfecting Cleaner	Ceramic	0.5089	0.0289	94.32	92.51	93.02
		0.5420	0.0403	92.56		
		0.5585	0.0523	90.64		
	Plastic	0.5077	0.0473	90.68	90.51	
		0.5012	0.0267	94.67		
		0.5477	0.0757	86.18		
	Chrome	0.5191	0.0239	95.40	96.03	
		0.5468	0.0162	97.04		
		0.5268	0.0229	95.65		

Summary:

Conclusion: Libman Multi-Surface Disinfecting Cleaner was effective in the removal of Hucker's Soil from ceramic, painted metal, and plastic substrates.