

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2025

DateRun: 01/08/2025

Experimenters: Alicia McCarthy

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Ceramics, Plastic, Stainless Steel

PartType: Coupon

Contaminants: DCC-17

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To test the efficacy of MPlus Degreaser against a comparative degreasing product, Lively Probiotic Multi-Surface Cleaner & Degreaser, at removing DCC-17 grease from ceramic, plastic, and stainless steel.

Experimental Procedure: Nine pre-weighed coupons per cleaner (three ceramic, three plastic, and three stainless steel) were soiled with 0.5 grams of DCC-17 grease soil using a handheld swab and air-dried for two hours at room temperature (68°F). The contaminated coupons were weighed after air drying to determine the contaminated (cont.) weight. Three coupons of the same substrate were placed onto the Straight Line Washing (SLW) Unit with Wypall X60 attached to the cleaning sled. The Wypall X60 reinforced wipe and each coupon on the SLW unit were treated with three sprays each before running the SLW unit for 20 cycles (30 seconds). At the end of the cleaning cycle, the coupons were air-dried and final weights were recorded.

Results:	Cleaner	Substrate	Initial wt of cont.	Final wt of cont.	%Cont Removed	Average % Removal	Overall Cleaner % Removal
	MPlus	Ceramic	0.5058	0.0206	95.93	89.91	94.21
			0.5028	0.0597	88.13		
			0.5113	0.0733	85.66		
		Plastic	0.4993	0.0242	95.15	95.26	
			0.5042	0.0153	96.97		
			0.5065	0.0321	93.66		
		Stainless Steel	0.5059	0.0150	97.03	97.47	
			0.5003	0.0081	98.38		
			0.5163	0.0155	97.00		
	Lively Probiotic Cleaner and Degreaser	Ceramic	0.5036	0.0087	98.27	97.37	96.64
			0.5069	0.0105	97.93		
			0.5043	0.0206	95.92		
		Plastic	0.5193	0.0190	96.34	95.14	
			0.5078	0.0250	95.08		
			0.5046	0.0302	94.02		
Stainless Steel		0.5026	0.0144	97.13	97.41		
		0.5009	0.0146	97.09			
		0.5046	0.0100	98.02			

Summary:	Substrates:		Ceramics, Plastic, Stainless Steel			
	Contaminants:		DCC-17			
	Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
	M Plus Inc	MPlus Degreaser	100%	94.00	☒	
	Lively	Lively Probiotic Multi-Surface Cleaner & Degreaser	100%	97.00	☒	

Conclusion: MPlus was as effective as Lively at removing DCC-17 soil from all three substrates.