CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2025
DateRun:	09/11/2025
Experimenters:	Amelia Wagner
ClientType:	Cleaning Equipment Mfr
ProjectNumber:	Project #4
Substrates:	Stainless Steel
PartType:	Coupon
Contaminants:	DCC-17
Cleaning Methods:	Mechanical Agitation
Analytical Methods:	Gravimetric
Purpose:	To test the efficacy of the Force of Nature Dishwashing Tabs in removing a greasy food-based soil consisting of fats, carbohydrates and proteins (DCC17) from stainless steel in comparison to a baseline product.
Experimental Procedure:	Stainless steel was chosen as the testing substrate to represent stainless steel utensils. Sixteen stainless steel coupons were assigned to each cleaner. Each coupon had their initial weights recorded. About 1 gram of DCC17 soil was applied and spread out on the full surface of each coupon. The coupons were then left to air dry for 24 hours to allow the soil to better adhere to the coupons. After drying, each coupon was then weighed to determine the amount of soil on each coupon. Each set of 16 coupons were washed in the dishwasher for a 1-hour cycle using the assigned cleaning product. Each cleaning cycle in the dishwasher utilized water with a hardness of 63ppm reaching a maximum temperature of 110F. After the washing cycle, the coupons were removed and allowed to air dry for 2 hours (until the residual water droplets on the coupons had evaporated). Once dried, each coupon had their final weight recorded to determine how much of the soil had been removed during the cleaning cycle.

Results:

Cleaner	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG
Cascade Complete Diswashing Detergent Pod	0.8956	0.0004	99.96	99.78
	0.5132	0.0010	99.81	
	0.5858	0.0008	99.86	
	0.7293	0.0000	100.00	
	0.4652	0.0001	99.98	
	0.4434	0.0053	98.80	
	0.6562	0.0001	99.98	
	0.6621	0.0022	99.67	
	0.6473	0.0009	99.86	
	0.4861	0.0003	99.94	
	0.5235	0.0004	99.92	
	0.3778	0.0004	99.90	
	0.4807	0.0003	99.94	
	0.4460	0.0010	99.78	
	0.5069	0.0004	99.92	
	0.3663	0.0029	99.21	
Force of Nature ADW Tablet	0.5019	0.0210	95.82	96.93
	0.5199	0.0044	99.15	
	0.5202	0.0189	96.37	
	0.6232	0.0146	97.66	
	0.6030	0.0236	96.09	
	0.8161	0.0371	95.45	
	0.8325	0.0249	97.01	
	0.7048	0.0213	96.98	
	0.8172	0.0153	98.13	
	0.5969	0.0311	94.79	
	0.5986	0.0196	96.73	
	0.6943	0.0109	98.43	
	0.7537	0.0040	99.47	

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0.7159	0.0177	97.53
0.6569	0.0428	93.48
0.7797	0.0169	97.83

Summary:

Substrates:	Stainless Steel				
Contaminants:	DCC-17				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Procter & Gamble	Cascade Complete (Dawn)	1 pod	99.78	☑	
Healthier Cleaning Innovations	Force of Nature Dish Washing Tab	1 tab	96.93	☑	

Conclusion: Although performing to a slightly lower degree than the Cascade Complete Dishwashing Detergent Pods, the Force of Nature ADW Tablet is a highly effective product for dishwashing.