CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 36

DateRun: 02/26/2026

Experimenters: Tatyanna Moreland Junior, Alexander Symko, Amelia Wagner

ClientType:

ProjectNumber: Project #8

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Blood

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: Evaluate the efficacy of Client's cleaner formulations on the removal of synthetic blood soil from a stainless steel substrate.

Experimental Procedure: 15 pre-weighed stainless-steel coupons were coated with synthetic blood using a swab and were allowed to air dry (68 F) for 24 hours. The supplied cleaner concentrates were then diluted by a ratio of 1 oz/ gallon of water. Dirty weights were then recorded. The contaminated coupons were immersed in their respective cleaner at room temperature for two minutes. Following immersion, coupons were rinsed three times in a de-ionized water bath for one minute and dried for 24 hours before the final weights were recorded.

Results:

Cleaner	Initial wt	Cont. wt	Clean wt.	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AV
Supernova 1.0	49.4977	49.5067	49.4979	0.0090	0.0002	97.78	98.
	49.2915	49.3029	49.2917	0.0114	0.0002	98.25	
Multizyme	60.3355	60.3465	60.3356	0.0110	0.0001	99.09	98.
	60.2133	60.2244	60.2135	0.0111	0.0002	98.20	
Caseprep	63.9995	64.0093	63.9994	0.0098	-0.0001	101.02	88.
	62.6513	62.6547	62.6521	0.0034	0.0008	76.47	
Pentazyme	60.5269	60.5387	60.53	0.0118	0.0031	73.72	81.
	60.9091	60.9178	60.9101	0.0087	0.0010	88.51	
Pentaprep	62.6866	62.697	62.6885	0.0104	0.0019	81.73	90.
	62.8221	63.832	62.8223	1.0099	0.0002	99.98	

Summary:

Substrates:	Stainless Steel
Contaminants:	Blood

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Case Medical Inc.	Pentaprep Multi-Enzymatic Pre-Soak Spray	1 oz/gal	98.20	☑	
Case Medical Inc.	SuperNova .1 Multi-Enzymatic Cleaner-CSNC01G	1 oz/gal	98.01	☑	
Case Medical Inc.	CasePrep Non-Enzymatic Pre-Soak Spray	1 oz/gal	88.75	☑	
Case Medical Inc.	Pentazyme Multi-Enzymatic Cleaner	1.0 oz/ gal	81.12	☑	
Case Medical Inc.	Pentaprep Multi-Enzymatic Pre-Soak Spray	1 oz/gal	90.86	☑	

Conclusion: Based on the results of this test, it is clear that these cleaners were quite effective at removing the soil from the substrate. A coupon from each cleaner was dropped due to equipment inaccuracy, but otherwise the experimental determinations show that the Multizyme and Supernova 1.0 cleaners were the most effective at removing the soil from the stainless steel coupons with an average removal of 98.64 and 98.01 respectively, but ultimately all cleaners were effective (>80% removal) in removing the soil from the substrate.