CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2026

DateRun: 02/23/2026

Experimenters: Amelia Wagner

ClientType:

ProjectNumber: Project #1

Substrates: Rubber, Stainless Steel, Textile, Vinyl Composite Tiles

PartType: Coupon

Contaminants: None

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test the efficacy of two Wipex products in removing artificial sebum from various substrates in comparison to benchmark products.

Experimental Procedure: Prior to testing, the provided lulu lemon yoga mat and the rubber floor tiles were cut into 5 in X 2.5 in coupons to fit the configuration of the Straight Line Washability unit (SLW) that was used to apply manual wiping during the cleaning process. Three coupons of each substrate were assigned to each cleaning product for a total of 12 coupons per cleaning product. Each coupon was weighed using a gravimetric balance and had their initial weight recorded.

A vial of synthetic sebum was heated to about 65C in a warm water bath. To soil the coupons, a pea size of synthetic sebum was applied to the top center of each coupon using a swab. In order to spread a realistically thin layer of sebum evenly on each coupon, a 7 ml coating rod was used to spread the sebum across the length of the coupon equating to a wet film thickness of 178 microns. Excess sebum was removed via the coating rod. After soiling, each coupon was re weighed and had their dirty weights recorded.

Three coupons of the same substrate were placed in the SLW. The one wipe of the corresponding cleaning product was attached to the sled of the SLW. The coupons were then subjected to 20 cycles of manual wiping via the sled of the SLW. This process was repeated until all coupons had been cleaned using the correct cleaning products. The coupons were then allowed to air dry for 2 hours before being weighed and having their final weights recorded.

Results:

Cleaner	Substrate	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG Substrate	%AVG Overall	AVG Visual Clean
Wipex Lavender	Rubber floor tiles	0.0448	0.0241	46.21	44.00	43.86	2.67
		0.0446	0.0264	40.81			
		0.0560	0.0308	45.00			
	Lululemon yoga mat	0.0099	0.0066	33.33	30.69		4.33
		0.0161	0.0118	26.71			
		0.0153	0.0104	32.03			
	Vinyl	0.0033	0.0026	21.21	20.56		4.5
		0.0042	0.0037	11.90			
		0.0042	0.0030	28.57			
	Stainless steel	0.0147	0.0041	72.11	80.20		2.33
		0.0069	0.0012	82.61			
		0.0085	0.0012	85.88			
Wipex Lemongrass	Rubber floor tiles	0.0161	0.0101	37.27	25.52	29.56	3.17
		0.0238	0.0200	15.97			
		0.0360	0.0276	23.33			
	Lululemon yoga mat	0.0130	0.0108	16.92	19.36		4
		0.0170	0.0125	26.47			
		0.0143	0.0122	14.69			
	Vinyl	0.0040	0.0031	22.50	26.55		4.5
		0.0040	0.0030	25.00			
		0.0028	0.0019	32.14			
	Stainless steel	0.0074	0.0048	35.14	46.82		2
		0.0055	0.0029	47.27			
		0.0062	0.0026	58.06			
		0.0522	0.0373	28.54	21.89	13.60	1.67

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Zogics Anti-Bacterial	Rubber floor tiles	0.0404	0.0317	21.53			
		0.0353	0.0298	15.58			
	Lululemon yoga mat	0.0121	0.0116	4.13	7.05		4
		0.0083	0.0081	2.41			
		0.0130	0.0111	14.62			
	Vinyl	0.0037	0.0033	10.81	13.36		3.67
		0.0043	0.0038	11.63			
		0.0051	0.0042	17.65			
	Stainless steel	0.0042	0.0035	16.67	12.10		2.67
		0.0038	0.0032	15.79			
		0.0026	0.0025	3.85			
Zogics Eco Pro Disinfecting	Rubber floor tiles	0.0331	0.0248	25.08	27.64	30.69	2.5
		0.0544	0.0411	24.45			
		0.0443	0.0295	33.41			
	Lululemon yoga mat	0.0186	0.0097	47.85	44.72		3.83
		0.0170	0.0099	41.76			
		0.0119	0.0066	44.54			
	Vinyl	0.0057	0.0045	21.05	32.80		4
		0.0041	0.0029	29.27			
		0.0052	0.0027	48.08			
	Stainless steel	0.0117	0.0106	9.40	17.58		2.5
		0.0058	0.0045	22.41			
		0.0043	0.0034	20.93			

A single wipe of the Wipex Lavender, Wipex Lemongrass, and Zogics Eco Pro Disinfecting were damp to the touch when initially removed from packaging. A Single wipe of the Zogics Antibacterial was soaking wet when initially removed from packaging.

There was significant sebum staining remaining on the lulu lemon yoga mat coupons and vinyl coupons after cleaning. This staining was consistent across all of the tested cleaning products. There was also some less significant sebum staining remaining on the rubber floor mat coupons after cleaning that was consistent across all of the tested cleaning products.

Summary:

Substrates:	Rubber, Stainless Steel, Textile, Vinyl Composite Tiles
Contaminants:	None

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Wipex	Wipex Natural Fitness Equipment Wipes-Lavender	RTU	43.86	☐	Rubber Floor Mat Tiles: 44% Lulu Lemon Yoga Mat: 30.69% Vinyl: 20.56% Stainless Steel: 80.20%
Wipex	Wipex Natural Fitnes Equipment Wipes-Lemongrass & Eucalyptus	RTU	29.56	☐	Rubber Floor Mat Tiles: 25.52% Lulu Lemon Yoga Mat: 19.36% Vinyl: 26.55% Stainless Steel: 46.82%
Zogics	Zogics Antibacterial Wipes	RTU	13.60	☐	Rubber Floor Mat Tiles: 21.89% Lulu Lemon Yoga Mat: 7.05% Vinyl: 13.36% Stainless Steel: 12.10%
Zogics	Zogics EcoPro Disinfecting Wipes	RTU	30.69	☐	Rubber Floor Mat Tiles: 27.64% Lulu Lemon Yoga Mat: 44.72% Vinyl: 32.80% Stainless Steel: 17.58%

Conclusion:

Overall, the Wipex Lavender wipes exhibited the most cleaning power out of the four cleaning products tested based on having the greatest AVG overall efficacy percentage of 43.86%. The Wipex Lavender wipes can be considered an effective cleaner in removing synthetic sebum from stainless steel as the cleaning of this substrate resulted in >75% soil reduction.

Both Wipex products had better results for stainless steel than both benchmark products.

The Zogics Pro Disinfecting wipes showed the highest efficacy in the cleaning of the lululemon yoga mat coupons specifically.