CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2024

DateRun: 08/27/2024

Experimenters: Tatyanna Moreland Junior, Alexander Symko, Gabriel Salierno, Cindy McClaughlin

ClientType: Cleaning Company

ProjectNumber: Project #1

Substrates: Skin

PartType: Part

Contaminants: Dirt

Cleaning Methods: Manual Wipe

Analytical Methods: Visual

Purpose: The purpose of this hand washing test was to evaluate the supplied product for performance following cleaning requirements.

Experimental Procedure: The experiment begins with taking pictures of participants initial conditions of their palms. Afterwords synthetic carpet soil diluted with water to form paste (5g/20ml) and a quater size is placed in the palm of one hand. The participant rubs their palms together for 20 seconds covering their entire palm and fingers and then the participants rinse their hands for 20 seconds with 2 squirts of soap. Afterwards, the participants blot their hands dry for 20 seconds and then air dry for each time after recording their answers for cleanliness, rinsing, and skin conditions. Skin conditions are recorded at 1 minute, 5 minutes, 20 minutes, and 60 minutes after rinsing and drying hands.

Soap A: Consumer Product Partners A74AE Luxury Hand Washing Liquid Soap

Soap B: Mrs. Meyers Clean Dry

Cleanliness Ratings:

- 1 - No signs of soil
- 2- Only in fine lines
- 3- intermittent spots and fine lines
- 4- multiple spots
- 5- continually covered

Rinsing Ratings:

- 1 - easily rinsing, no residue
- 2 - easily rinsing, some residue
- 3 - hard rinsing - no residue
- 4 - hard rinsing - some residue
- 5 - hard rinsing, lots of residue

Observed skin condition at 1, 5, 20, and 60 minutes:

- 1 - smooth and dry
- 2 - some dryness
- 3 - Dry hands, turning white
- 4 - skin stiffening
- 5 - very dry, cracking of skin

Results:

Person	Participant	Soap	Clean	Rinse	1 Minute	5 Minutes	20 Minutes	60 Minutes
A	Gabriel	A	3.5	1	1	1	1.5	1.5
		B	4.5	1	2	2	1.5	1.5
B	Tatyanna	A	4	2	1	1.5	1.5	1.5
		B	4.5	2.5	2	3	3	3
C	Cindy	A	2.5	1	1.5	1.5	1.5	1.5
		B	3	2.5	1.5	1.5	1.5	2
D	Liz	A	3.5	3	1	2	2.5	2.5
		B	1	1	1.5	2	2	2
E	Stephan	A	2.5	1	1.5	1	1	1
		B	3	1.5	2.5	2	2	2
F	Alex	A	4.5	2.5	1	1	1	1
		B	3	2	1.5	2	2	1.5

Summary:

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Substrates:	Skin				
Contaminants:	Dirt				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Consumer Product Partners	A74AE Luxury Hand Washing Liquid Soap	100		☑	soil removal 3.4 rinsing 1.8
Mrs Myers Clean Day	Mrs. Meyer's Clean Day Lavender Liquid Hand Soap	100		☑	Clean 3.2 Rinse 1.8

Conclusion:

The average clean rating among all 6 participants for product A was 3.4 and for product B 3.2. The average rinse rating among all 6 participants was 1.8 for both products. For each rating of time the average rating of skin condition was between 1 and 1.5. Photographs of each subject's hands before soil, after soiling and after cleaning were taken to document cleaning results.

In summary, product A was comparable in overall performance to the comparative product B.