CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2020

DateRun: 09/21/2020

Experimenters: Zoe Lawson, Justin Kiander

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Food

PartType: Coupon

Contaminants: Dirt, Oil

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric, Visual

Purpose: To test the effectiveness of the cleaner Fit Organic using a food based substrate.

Experimental Procedure: The soil mixture used a teaspoon of AATCC Carpet soil added to 50 ml of mineral oil and was shaken to mix it up. The soil was dispensed using a plastic squeeze pipette. Approximately 0.03 to 0.05 grams of soil was added to a pre-cleaned piece of fruit/vegetable. The fruit/vegetable was weighed with the dirt to determine the amount of soil added. The dirty fruit/vegetable was cleaned for 20 seconds using immersion and mild agitations (up and down dunking). Final weights were recorded and the percent soil removal was calculated. Test evaluation was run in triplicate. In addition, a ranking from best to worst was visually taken of the fruit/vegetables.

Results: Qualitative Assessment

Cleaner	Initial Weight	Final Weight	% Removed	Overall Average Removal
Fit Organic	0.0419	0.0028	93.32	93.36
	0.0325	0.0028	91.38	
	0.0476	0.0022	95.38	

Visual Ranking

Cleaner	Visual Rank 1	Visual Rank 2	Visual Rank 3
Fit Organic	1	1	1

Summary:

Substrates:	Food				
Contaminants:	Dirt, Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Fit Organic	Fit Organic Fruit and Vegetable Wash	100	93.36	☑	Visual Rank 1

Conclusion: Fit Organic was effective in removing the soil from the food substrate with a removal average of 93.36%. This was slightly better than Rebel Green which averaged 92.79. However, the difference was not statistically different.