CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2020

DateRun: 07/15/2020

Experimenters: Jason Marshall

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Food

PartType: Part

Contaminants: Dirt, Oil

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To evaluate cleaning method using food based substrate

Experimental Procedure: The soil mixture used a teaspoon of AATCC Carpet soil added to 50 ml of mineral oil and shaken to mix it up. The soil was using a plastic squeeze pipette. Approximately 0.03 to 0.05 grams of soil was added to a precleaned 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. Water was used as a control.

Results: Soil removal on the food surface was more successful for the cleaner than with water.

Cleaner	Initial wt	Final wt	% Removed
water - cherry	0.0479	0.0152	68.27
	0.0458	0.0122	73.36
	0.0439	0.0189	56.95
Better Life Nursery cleaner - cherry	0.0375	0.0112	70.13
	0.0912	0.0295	67.65
	0.0566	0.0108	80.92

Summary:

Substrates:	Food				
Contaminants:	Dirt, Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Water	Water	100	66.19	☐	
Better Life	Better Life Naturally Mess Conquering Nursery Cleaner	100	72.90	☑	

Conclusion: The testing methodology at the shorter time (20 seconds in place of 30) resulted in the cleaning product removing slightly more soil than water alone. Next phase of testing will be done using supplied product.