

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016
DateRun: 10/21/2016
Experimenters: Carla De La Cruz
ClientType: Cleaning Equipment Mfr
ProjectNumber: Project #2
Substrates: Liquid
PartType: Coupon
Contaminants: Odor
Cleaning Methods: Immersion/Soak
Analytical Methods: Smell
Purpose: To determine whether the Force of Nature product is better at eliminating the odor of milk than a 1% bleach solution.

Experimental Procedure: Milk was placed in several glass jars and allowed to age for 3 days. The cleaning solutions were prepared the day of use, bleach was diluted to 1% and the Force of Nature cleaner was made following the instructions provided. Although the cleaner was made three times, each time the free chlorine content was always about 750 ppm, and the pH was of 4.5. Testing began with three experimenters smelling a control bottle and comparing it to all other bottles. The rating system was 1-5, 5 being the worst smelling and 1 being the best smelling. Two sprays of the cleaner corresponding to each bottle were applied and then they were again smelled and rated. This step was repeated two more times for a total of 6 sprays on each bottle. The bottles were then left overnight and smelled the next day and rated. An additional two sprays were applied the day after initial testing and the final ratings were obtained.

Results:

	Bottle	Tester	Initial	2 sprays	4 sprays	6 sprays	Product Ave	Overnight	Product Ave	Overnight (+2)	Product Ave
Force of Nature	A	1	5	4.5	4.1	3.6	3.5	4.8	4.2	3.2	3.3
		2	5	4.5	3.5	3		5		3.5	
		3	3	2.5	2.5	2.5		4		3.5	
	B	1	4.5	4.2	4.2	4		4.5		3.4	
		2	5	5	4	3.9		4.5		3.7	
		3	4	3	3	3		3		3.4	
	C	1	4	4.2	4	4.2		4.5		3.5	
		2	5	4	3.5	4		4		3	
		3	5	5	3.5	3		3.5		2.5	
1% bleach solution	D	1	4.5	4.5	3.9	3.7	3.6	4.7	4.4	3.1	3.2
		2	5	4.5	3.8	3		4		3	
		3	5	4.5	4	4		4		3	
	E	1	4	4.4	3.8	3.9		4.8		2.8	
		2	4	4	3.5	3.5		4		3.3	
		3	3	3	3	3		4.5		2.5	
	F	1	4.2	4.5	4.1	3.8		4.3		3.3	
		2	4	4.2	4	3.8		4		3.7	
		3	4.5	3.5	3.5	3.5		5		4	

Summary:

Substrates:	Liquid					
Contaminants:	Odor					
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:	
Healthier Cleaning Innovations	Force of Nature	100		<input checked="" type="checkbox"/>		
Clorox Company	Clorox Bleach	1		<input checked="" type="checkbox"/>		

Conclusion:

Milk was placed in several glass jars and allowed to age for 3 days. The cleaning solutions were prepared the day of use, bleach was diluted to 1% and the Force of Nature cleaner was made following the instructions provided. Although the cleaner was made three times, each time the free chlorine content was always about 750 ppm and the pH was of 4.5. Testing began with three experimenters smelling a control bottle and comparing it to all other bottles. The rating system was 1-5, 5 being the worst smelling and 1 being the best smelling. Two sprays of the cleaner corresponding to each bottle were applied and then they were again smelled and rated. This step was repeated two more times for a total of 6 sprays on each bottle. The bottles were then left overnight and smelled the next day and rated. An additional two sprays were applied the day after initial testing and the final ratings were obtained.

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