CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2019
DateRun:	02/06/2019
Experimenters:	Ross Goding, Nicole Kebler, Ted Kearney, Adorrah-Le Khan, Harry Rankin
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #17
Substrates:	Carpet
PartType:	Coupon
Contaminants:	Odor
Cleaning Methods:	Manual Wipe
Analytical Methods:	Smell
Purpose:	To evaluate the effectiveness of Dr. Easy and Rejoice brand cleaners on the elimination of unwanted odors.
Experimental Procedure:	A total of six clean glass bottles were each filled with six milliliters of whole milk. Four of these bottles would be treated by formulations and the remaining two bottles would be used as controls. All bottles were capped and stored in a room for a little over a week at room temperature (68F). After the spoiling period, the bottles were opened and a panel of five observed for signs of spoiling odor, according to the rating system (see below). Two bottles were reserved for each formulation, and two shakes of the respective formulations were applied to the soiled carpet, left for five minutes and then vacuumed. After vacuuming, the odor panel graded each bottle with their ratings recorded. This process continued by introducing two shakes of powder into each bottle of its respective formulation and rating until six total shakes were reached. The bottles were stored once again at room temperature and sat overnight. All testing bottles were rated the next day with no treatment, and then an additional two shakes were added before final ratings.

The following rating system was used to assess the malodor of the spoiled milk:

Rating key:	
1	No Malodor
2	Slight Malodor
3	Noticeable Malodor
4	Considerable Malodor
5	Severe Malodor

Results:

Cleaner	Treatment	Tester 1	Tester 2	Tester 3	Tester 4	Tester 5	Average
Dr. Easy Carpet Powder	Original Untreated (1 week)	5	5	3.5	5	5	4.7
		5	5	5	5	5	5
		3.5	4	4	4	5	4.1
	2 Shakes	4.5	5	5	4.5	5	4.8
		4.5	5	5	4.5	5	4.8
		3	3.5	4	3	5	3.7
	4 Shakes	3.5	2	4	4	5	3.7
		4	3	4.5	3.5	3	3.6
		3.5	5	4	3	3	3.7
	6 Shakes	3	2	3.5	4	5	3.5
		3.5	3	4	3.5	4	3.6
		4	4.5	3	3	4	3.7
	Overnight	5	5	5	4	3	4.4
		5	5	5	3	2	4
		5	5	5	3	3	4.2
	8 Shakes	4.5	4.5	4	2	3	3.6
		5	4.5	4.5	2.5	4	4.1
		5	4.5	4.5	2	3	3.8
Rejoice Carpet Powder	Original Untreated (1 week)	5	5	5	5	5	5
		5	5	5	5	5	5
		5	5	5	5	5	5
	2 Shakes	5	5	5	4.5	5	4.9
		5	5	5	5	5	5

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		5	5	5	4.5	5	4.9
	4 Shakes	5	5	4	4	5	4.6
		5	5	5	4.5	5	4.9
		4.5	5	5	4	5	4.7
	6 Shakes	4.5	5	4	3.5	4	4.2
		5	5	5	4	5	4.8
		4.5	5	5	3.5	3	4.2
	Overnight	5	5	5	3	2	4
		5	5	4.5	2.5	4	4.2
		5	5	4	3	2	3.8
	8 Shakes	4.5	4.5	4	1.5	2	3.3
		4.5	4	3.5	2	5	3.8
		4.5	5	4	2	4	3.9

Averaged Scores

	Original	2 Shakes	4 Shakes	6 Shakes	Overnight	8 Shakes
Dr. Easy Carpet Powder	4.60	4.43	3.67	3.60	4.2	3.83
Rejoice Carpet Powder	5	4.93	4.73	4.40	4.0	3.67

Differences of Averaged Scores Between Tests

	Original	2 Shakes	4 Shakes	6 Shakes	Overnight	8 Shakes
Dr. Easy Carpet Powder	0	- 0.17	-0.76	-0.07	+0.60	-0.37
Rejoice Carpet Powder	0	-0.07	-0.20	-0.33	-0.40	-0.33

Summary

Product Name	Original Rating	Overnight Rating	Final Rating	Overall Difference
Dr. Easy Carpet Powder	4.60	4.2	3.83	-.77
Rejoice Carpet Powder	5	4.0	3.67	-1.33

Summary:

Substrates:	Carpet				
Contaminants:	Odor				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Brand Buzz	Dr. Easy Carpet Cleaner	100%	3.83	☑	
Brand Buzz	Rejoice Carpet Powder	100%	3.67	☑	

Conclusion:

Dr. Easy Carpet Powder was observed to be less effective than the comparative formulation, Rejoice Carpet Cleaner, in eliminating the malodor of spoiled milk. Both formulations were similar in reducing the original malodor after 6 shakes, and Dr. Easy Carpet Powder was observed to be less effective in reducing the malodor overnight. Overall, Dr. Easy Carpet Powder reduced the original rating by 0.77 and Rejoice Carpet Powder reduced the original rating by 1.33.