CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2022

DateRun: 08/30/2022

Experimenters: Zoe Lawson, Tatyanna Moreland Junior, Alexander Symko

ClientType:

ProjectNumber: Project #3

Substrates: Textile

PartType: Coupon

Contaminants: Odor

Cleaning Methods: Immersion/Soak

Analytical Methods: Visual, Smell

Purpose: Determining the Efficacy of Funk Away Pretreatment, CLR Sport, and Oxiclean on eliminating sweat malodor on pre-soiled athletic wear t-shirts.

Experimental Procedure: Pre-soiled athletic-wear shirts were gathered and designated by color. Purple (P), Green (G), and Red (R) shirts were used. The standard procedure for malodor elimination tests were used, with three panelists rating the odor on a scale from one to five. With one representing no malodor and five representing maximum malodor. Malodor measurements were taken prior to washing, after washing, after drying, and then after 24 hours. Approximately three sprays was used to pretreat the stain, and each shirt was individually allowed to tumble-wash for 15 minutes with Tide Sport detergent. After measurements, all three shirts were put into an on-site consumer dryer and allowed to tumble dry for approximately 45 minutes. The shirts were measured for malodor following drying, and then 24 hours later.

Results: After the washing stage, CLR Sport and Oxiclean were rated the most effective at removing malodor (average rating of 1.5). Funkaway Pretreatment was the most effective at removing malodor after the drying stage (average rating of 1.5) and also after 24 hours (average rating of 2.0). Both CLR Sport (average rating of 2.2) and Oxiclean (average rating of 2.7) had higher ratings after the drying stage. Oxiclean was rated the highest after 24 hours (average rating of 3.0). CLR Sport was the only pretreatment that did not have an increased rating 24 hours later (average rating of 2.2).

Treatment	Cleaner	Shirt	Panelists			Avg
			1	2	3	
Before Wash	Funkaway Pretreatment	P	5	5	5	5
	CLR Sport	G	5	5	5	5
	Oxiclean	R	5	5	5	5
After Wash	Funkaway Pretreatment	P	3	2.5	3	2.8
	CLR Sport	G	1.5	1.5	1.5	1.5
	Oxiclean	R	1	2	1.5	1.5
After Dry	Funkaway Pretreatment	P	1	2	1.5	1.5
	CLR Sport	G	1.5	3	2	2.2
	Oxiclean	R	2	3	3	2.7
After 24 hrs	Funkaway Pretreatment	P	2	2	2	2.0
	CLR Sport	G	2.5	2	2	2.2
	Oxiclean	R	3	3	3	3.0

Summary:

Substrates:	Textile				
Contaminants:	Odor				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Jelmar	CLR Sports Stain Remover	100		☑	Rating of 2.2
Market Ready	Funk Away Pre-Treatment Stain and Odor Remover	100		☑	Rating of 2.0
Church & Dwight Co Inc.	OxiClean Max Force Laundry Stain Remover	100		☐	Rating of 3.0

Conclusion: Funkaway Pretreatment was the most effective of removing malodor with the best ratings after drying and 24 hours later. CLR Sport was slightly less effective than Funkaway, while Oxiclean proceeded to have higher ratings after drying and after 24 hours.