



Spett.le
Revenge Srl
Via Rassega, 3
25030 Torbole Casaglia (BS)

08.10.2020
SC/sm RL 590/20

Oggetto: test antibatterico su nr. 4 mascherine trattate con Ultra Fresh KW-48 (antibatterico) + Naigard 6/MF (idro-oleorepellente)

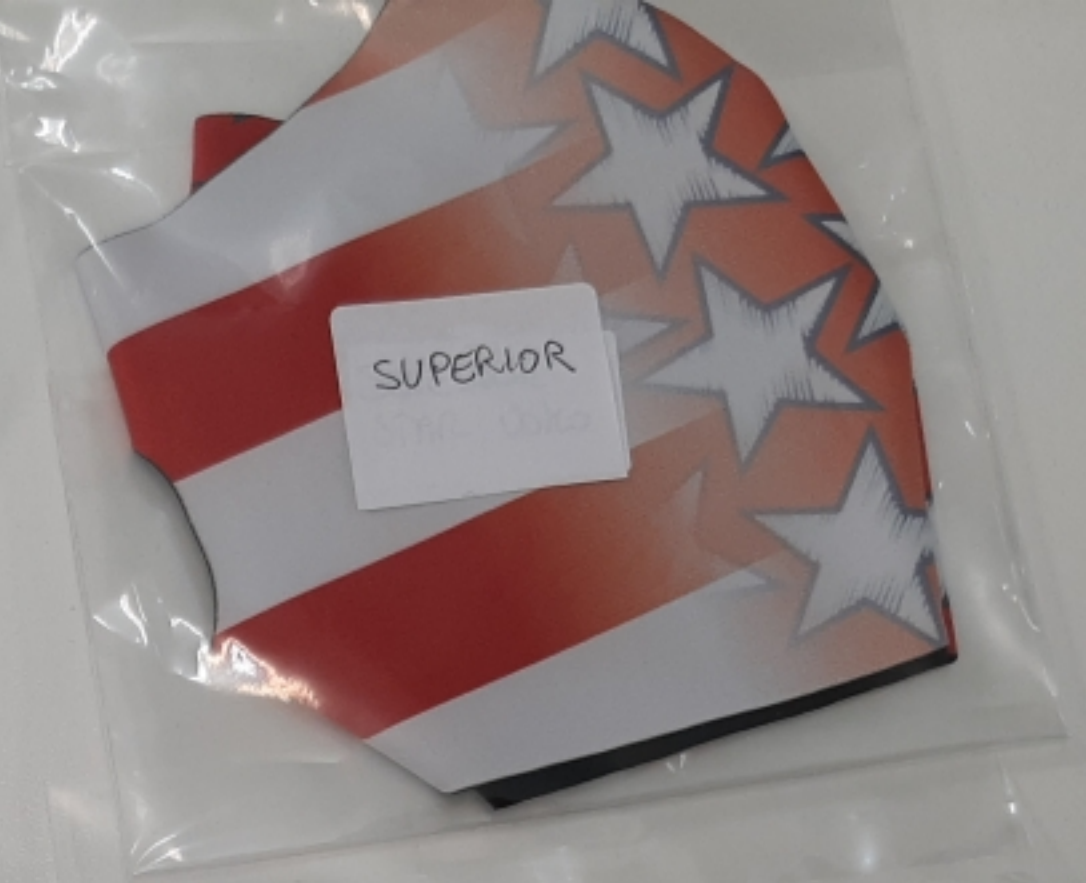
Art.:

1. BASIC ADULTO (33% PA 6.6 – 33% PL – 11% EA LYCRA – 23% EA)
2. SUPERIOR (33% PA 6.6 – 33% PL – 11% EA LYCRA – 23% EA)
3. ADVANCE (28% PA 6.6 – 28% PL – 9% EA LYCRA – 20% EA – 15% CO)
4. FASHION (27% PA 6.6 – 8% EA – 19% AC – 14% VI – 32% CO)

Come si può notare dal report allegato (3618871), il trattamento è stato applicato correttamente e gli articoli esaminati hanno superato il test (riduzione area contaminata del 99,9%, requisito minimo 99%).

Confermandoci a disposizione per ogni dettaglio, cogliamo l'occasione per inviarVi i migliori saluti.

NEARCHIMICA SPA
Stelio Chiesa





October 05, 2020

Antonella
Nearchimica

RL 590/20

Antimicrobial Assessment of Four Fabric Samples

3618871

Four nylon lycra fabric samples, treated with Ultra-Fresh KW-48, were received from Nearchimica on September 22, 2020. At Thomson Research Associates, Inc., the samples were tested for antimicrobial activity using a quantitative test method.

PROCEDURE

Quantitative Antibacterial Assessment:

ISO20743:2013 (E) was used to quantitatively test the specimen for antibacterial activity. In brief:

1. A piece of the sample was placed into a container with a lid.
2. A 0.2 mL inoculum of *Staphylococcus aureus* (ATCC #6538) was placed, in microdroplets, on the surface of the samples. 0.05% Triton X-100 was added to the inoculum as a wetting agent.
3. The specimen was incubated 24 hours at 37C.
4. 20 mL of Lethen broth was added to the container and shaken. The bacteria in the liquid were quantified by using a series of dilution plates.

THOMSON RESEARCH ASSOCIATES, INC.

49 Gervais Drive, Toronto, Ontario, Canada, M3C 1Y9
Tel: 416.955.1881 • Fax: 416.955.1887 • Email: lab@ultra-fresh.com
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RESULTS

M_a = logarithm of starting bacterial inoculum

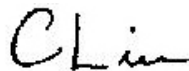
M_b = logarithm of number of bacteria after 24 hour incubation on untreated sample / inoculum control (average of 3 specimens)

M_c = logarithm of number of bacteria after 24 hour incubation on treated sample (average of 3 specimens)

S = Log Reduction = $M_b - M_c$

Quantitative Assessment of Activity – ISO20743:2013					
<i>S. aureus</i>					
Concentration of starting inoculum (M_a)		$\log 5.12 \times 10^4 = 4.7$			
Inoculum Control after 24 hour incubation (M_b)		$\log 6.29 \times 10^6 = 6.8$			
Growth Value ($F = M_b - M_a$)		2.1			
Sample Description		No. Bacteria Recovered	Log Recovery (M_c)	Log Reduction (S)	% Reduction
1	590/20-1, Basic Adulto	2.03×10^3	3.3	3.5	>99.9%
2	590/20-2, Superior	1.68×10^2	2.2	4.6	>99.9%
3	590/20-3, Advance	3.28×10^1	1.5	5.3	>99.9%
4	590/20-4, Fashion	$<2.00 \times 10^1$	<1.3	>5.5	>99.9%

THOMSON RESEARCH ASSOCIATES, INC.



Microbiology Manager



Microbiologist

c: Nearchimica

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