

## TEST REPORT

LAB NO. : 2101065/ 1

DATE: 06/04/2021

**NAME OF CUSTOMER** : M/S. REAL RELIEF  
**ADDRESS** : Essen 26,  
6000 Kolding, Denmark  
**REFERENCE** : Letter Ref. dated March 04, 2021  
Kind Attention: Torben Holm Larsen  
**DATE OF RECEIPT** : 20/03/2021  
**DATE OF INITIATION** : 20/03/2021  
**DATE OF COMPLETION** : 06/04/2021  
**SAMPLE DESCRIPTION** : Sample labeled as-

Sr. No.	Description
1.	Supertowel



**Name of Test:**

Evaluation of Antimicrobial Activity by AATCC 100-2019\*

**Test Inoculum:**

1. Staphylococcus aureus ATCC 6538 ( $1.70 \times 10^5$  CFU/ml)
2. Klebsiella pneumoniae ATCC 4352 ( $1.80 \times 10^5$  CFU/ml)
3. Meticillin Resistant Staphylococcus aureus ATCC 43300 ( $1.50 \times 10^5$  CFU/ml)

**Additional Test Information:**

Sample size : 48 mm discs  
Pre-treatment of sample : Non sterile  
No. of swatches used :  $1.0 \text{ g} \pm 0.1 \text{ g}$   
Inoculum Carrier : Phosphate Buffered saline  
Neutralizer : DE Broth

\*modified wrt contact time

**Results:**

Fabric Sample swatches in contact with individual test cultures for **30 seconds, 1 min, 10 mins, 20 min., 30 min. 1 hr, 4 hrs, 8 hrs, 12 hrs at 37<sup>0</sup> C** showed the following results:-

Sample Identification	Test Organism	Inoculated Treated Sample at 0 hrs. (C)	Percentage Reduction of Bacteria (R)								
			30 seconds	1 minute	10 minutes	20 minutes	30 minutes	1 hours	4 hours	8 hours	12 hours
Supertowel	Staph. Aureus	1.74 x 10 <sup>5</sup>	99.64%	99.64%	99.79%	99.98%	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%
	K. pneumoniae	1.80 x 10 <sup>5</sup>	99.47%	99.60%	99.76%	99.83%	99.92%	>99.99%	>99.99%	>99.99%	>99.99%
	MRSA	1.50 x 10 <sup>5</sup>	99.50%	99.74%	99.95%	99.98%	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%

**REMARKS:**

1. CFU: Colony Forming Unit = No. of Microorganisms
2. Percentage Reduction of Microorganisms (R) = 100 (C – A/ C)

**For BIOTECH TESTING SERVICES**

Dr Shilpa U. Nair  
Quality Manager  
(Authorized Signatory)