



Report Code	MS-21092020-01
Issued To	INMAS-DRDO
Via	Gel Craft Healthcare Pvt Ltd
Sample Description	Antimicrobial Efficacy of VISCOELASTIC Gel Coated with COVID COATING
Sample Received	14/08/2020
Report Issued	20/09/2020

**Study:- Antimicrobial Efficacy of VISCOELASTIC Gel Coated with COVID COAT**

Sr. No	Test Parameters	Units of Measurements	Results	Test Method
Microbiological Parameters				
1	Antifungal Efficacy			
	For 30 Sec contact time		99.9	
	For 1 Day contact time	%	99.9	EN 1650
	For 15 Days contact time		70.8	
	For 30 Days Contact time		64.1	

Summary: Fungal cultures were grown, mainly *Aspergillus brasiliensis* or *Candida albicans*. 1:10 dilution of the test sample was prepared. 8 Part of diluted test sample, 1 part of suspension and 1 part of interfering substance (Bovine Serum Albumin) were mixed. The BSA was maintained at dirty conditions i.e. 3g/L. The solution is mixed then allowed to rest for 30 Seconds, 1 Day, 15 Days, and 30 Days contact time. After contact time elapse, sample of mixture are neutralized and evaluated for microbiological plating techniques. Populations after treatment are compared to controls to determine microbial reduction.

**Conclusion:** The reduction in the efficacy of the test solution on day 15 and day 30 could be because of the following reasons:

1. Simulation of dirty conditions with an interfering substance added to test solution
2. Use of diluted product instead of concentrated solution.

The product could show better results if concentrated solution is used and clean conditions are maintained.

ORCS Disinfection Unit - Trials Data

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For Gel Craft Healthcare Pvt. Ltd.

(Authorised Signatory) Director  
 M/s Gel Craft Healthcare (P) Limited



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Sample Identification	Test Organism	Exposure Time	Count of Test Organism			Antimicrobial Activity	
			Initial	After Exposure		Log Reduction	Percentage Reduction
			Count	CFU/ml	Log		
VISCOELASTIC Gel Coated with COVID COAT	Staph. Aureus	5 minutes	2.1 x 10 <sup>5</sup> , CFU/ml L=5.32	<10	<1	>4.32	>99.99
	Esc. Coli		2.60 x 10 <sup>5</sup> , CFU/ml L=5.41	<10	<1	>4.41	>99.99
	P. Aeruginosa		1.98 x 10 <sup>5</sup> , CFU/ml L=5.32	<10	<1	>4.29	>99.99
	S.typhimurium		1.85 x 10 <sup>5</sup> , CFU/ml Log-5.07	<10	<1	>4.26	>99.99
	C. albicans		1.36 x 10 <sup>5</sup> , CFU/ml L=5.13	<10	<1	>4.07	>99.99
	Asp. niger			<10	<1	>4.13	>99.99

Percentage Reduction of Microorganisms = 100 ( Initial – After Exposure)/ Initial  
 Log Reduction = Log Initial – Log after Exposure

**INTERPRETATION:**

ViscoElastic Gel Coated with COVID COAT has shown a >4 log reduction / >99.99% reduction of Staphylococcus aureus, Escherichia Coli, Pseudomonas Aeruginosa, Salmonella Typhimurium, Candida Albicans and Aspergillus Niger in exposure of 5 minutes when analysed as per ASTM E 2315-16

**Wash Efficacy Test**

Samples Showed antimicrobial Activity after 5 washes

**Terms & Conditions:**

- 1 Test reports are valid only on the samples tested in our laboratory.
2. Samples will be destroyed after 30days from the date of issued test Reports unless or otherwise specified.
3. This report will not be valid for judicial purpose or for advertisement
4. Any complaints about this report should be. communicated in writing within 7 days of this report.

ORCS Disinfection Unit + Trivodini Trials Data

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*[Handwritten Signature]*  
 Date: 20/09/20  
 Signature: *[Handwritten Signature]*  
 Director Lab/Estt  
 Tech Coord & PM DN.

For Gel Craft Healthcare Pvt. Ltd.

*[Handwritten Signature]*  
 (Authorised Signatory)  
 M/s Gel Craft Healthcare (P) Limited

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