

TEST REPORT

LAB NO.: 2300703/1-2 DATE: 17/04/2023

NAME OF CUSTOMER : M/S. Allwin Rotoplast (Mr.Salim Pissuwala)

ADDRESS: 753/B, B/h. Cadila Corporate Campus,

Sarkhej-Dholka Road, Vill: Bhat, Tal: Daskroi,

Dist: Ahmedabad-382210, India

REFERENCE: Letter Ref: Nil dated March,29 2023

Kind Attention: Mr. Srimant Anne

DATE OF RECEIPT : 30/03/2023

DATE OF INITIATION : 30/03/2023 & 10/04/2023

DATE OF COMPLETION : 05/04/2023 & 17/04/2023

SAMPLE DESCRIPTION: Plastic sample labeled as-

Sr No.	Description		
1	Sample AW - Treated (Red colour)		
2	Untreated		
Untreated lab control			



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[•] Samples are not drawn by the laboratory • Result relate only to the samples tested

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Test Method:

JIS Z 2801: 2010; Amendment 1: 2012

Antibacterial products - Test for antibacterial activity and efficacy

Test Organisms:

1. Staphylococcus aureus ATCC 6538

2. Escherichia coli ATCC 8739

Experimental Conditions:

Sample type & Size : 5cm x 5cm

Lab Control : LDPE Film

Cover Film : LDPE Film

Pre-treatment of sample : ETO Sterilisation

Inoculum Carrier : 1: 500 Nutrient broth + 0.05% Triton X-100

Volume of Inoculum : 0.1 ml

Contact Time : 24 hours at 37° C

Media and Reagent : Soyabean-casein digest agar

Incubation Temperature : 37° C for 24 hours

Neutraliser used : SCDLP Broth

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Results:

ANTIBACTERIAL ACTIVITY

1. Test Bacteria: Staphylococcus aureus ATCC 6538

Quantitative Assessment of Activity - JIS Z 2801: 2010; Amendment 1: 2012							
Untreated lab control: 0	Log = 4.38						
Untreated lab control: 0	Log = 6.11						
Sample Identification	No. Bacteria on treated sample (At)	Log of Bacteria on treated sample	Antimicrobial Activity (R)(Log Ut- At)	Microbial Kill (% Reduction)			
Sample AW - Treated (Red colour)	50000	4.69	1.42	96.12			
Untreated	244000	5.38	0.73	81.08			

2. Test Bacteria: Escherichia coli ATCC 8739

Quantitative Assessment of Activity - JIS Z 2801: 2010; Amendment 1: 2012								
Untreated lab control: 0	Log = 5.09							
Untreated lab control: C	Log = 6.63							
Sample Identification	No. Bacteria on treated sample (A _t)	Log of Bacteria on treated sample	Antimicrobial Activity (R)(Log U _t - A _t)	Microbial Kill (% Reduction)				
Sample AW - Treated (Red colour)	272000	5.43	1.20	93.67				
Untreated	880000	5.94	0.69	79.53				

The Standard Bacterial Effectiveness R ≥ 2 log reduction

COMMENT:

When tested as specified, Sample labeled **Sample AW - Treated (Red colour)** has shown **96.12**% and **93.67**% reduction of Staphylococcus aureus and Escherichia coli by the Quantitative Assessment of Activity by JIS Z 2801: 2010; Amendment 1: 2012 Test Method.

For BIOTECH TESTING SERVICES

BTS BTS

Dr Shilpa U. Nair Quality Manager (Authorized Signatory)

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