



BIOTECH TESTING SERVICES

TEST REPORT

LAB NO. : 2102733/ 1 - 2

DATE: 30/08/2021

NAME OF CUSTOMER : M/S GYPTECH SYSTEMS PVT. LTD

ADDRESS : C-17, Miraj Apartment,
Nr. Nattu Bhai Circle,
Race Course (West)
Vadodara . 390007

REFERENCE : Letter Ref. No.: Nil dated August 15, 2021
K. Attention: Ashish Mathur

DATE OF RECEIPT : 18/08/2021

DATE OF INITIATION : 20/08/2021

DATE OF COMPLETION : 28/08/2021

SAMPLE DESCRIPTION : Sample labeled as

Sr. No.	Description of Samples / material	Treatment
1.	Gypotech Pax- Akostika (C)	Coated
2.	Gypotech Pax - Akostika (P)	Non coated
Untreated lab control		

Name of Test:

Evaluation of Antimicrobial activity of Plastic specimen

Name of Test Protocol:

JIS Z 2801: 2010

Test Organisms used for evaluating Antimicrobial activity:

1. Staphylococcus aureus ATCC 6538
2. Escherichia coli ATCC 8739

Test Conditions:

Neutraliser used : Buffered Saline with Tween 80 - 0.01 %

Contact Time : 24 hours at 37° C

Incubation Temperature : 37° C

Media and Reagent : Soyabean-casein digest agar

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RESULTS:
ANTIBACTERIAL ACTIVITY
1. Test Bacteria: Staphylococcus aureus ATCC 6538

Quantitative Assessment of Activity - JIS Z 2801: 2010				
Untreated: Conc. of Inoculum on untreated sample at 0 hours (A): 1.28×10^4			Log = 4.10	
Untreated: Conc. of Inoculum on untreated sample after 24 hour (B): 1.31×10^5			Log = 5.11	
Sample Identification	No. Bacteria on treated sample (C)	Log of Bacteria on treated sample	Antimicrobial Activity (R) (Log B-C)	Microbial Kill (% Reduction)
Gyptech Pax-Akostika (C) - Coated	60	1.77	3.34	99.95
Gyptech Pax-Akostika (P) - Non coated	1680	3.22	1.89	98.71

2. Test Bacteria: Escherichia coli ATCC 8739

Quantitative Assessment of Activity - JIS Z 2801: 2010				
Untreated: Conc. of Inoculum on untreated sample at 0 hours (A): 6.80×10^4			Log = 4.83	
Untreated: Conc. of Inoculum on untreated sample after 24 hour (B): 1.49×10^5			Log = 5.17	
Sample Identification	No. Bacteria on treated sample (C)	Log of Bacteria on treated sample	Antimicrobial Activity (R) (Log B-C)	Microbial Kill (% Reduction)
Gyptech Pax-Akostika (C) - Coated	190	2.27	2.90	99.87
Gyptech Pax-Akostika (P) - Non coated	24800	4.39	0.78	83.35

The Standard Antimicrobial value of Evaluation $R \geq 2.0$

COMMENT:

When tested as specified, Sample labeled as Gyptech Pax- Akostika (C) - Coated; **PASSES** the Quantitative Assessment of activity; Gyptech Pax- Akostika (P) - Non coated; **FAILS** the Quantitative Assessment of activity for Staphylococcus aureus and Escherichia coli by JIS Z 2801: 2010 Test Method.

For BIOTECH TESTING SERVICES



Shilpa
Dr Shilpa U. Nair
Quality Manager
(Authorized Signatory)

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