

# **Test Report**

Customer Name: Thanmatra Life

Thanmatra Innovations Pvt Ltd, Cabin E. Brindhavan Business center,

Manimala Road, Edapally, Kochi-682024, Kerala.

Sample particular

: "Thanmatra Life Herba Nuriel Smart Sanitizer"

Test parameter

: <u>Antibacterial efficiency activity</u>\*
(1) Staphylococcus aureus ATCC 6538

Test Method

: JIS Z 2801\*

Biocare ID. No.

: Ind/2122/083

Sample received date

: 29/05/2021 : 31/05/2021

Test start date Report date

: 09/06/2021

Report status

: Final

Packing

: Satisfactory

**Test Conditions** 

Test Size

 $: 50 \times 50 \text{ mm}$ 

Contact time

: 08 hours at 37°C

Media

: Soyabean casein digest broth

: Soyabean casein digest Agar

#### Test method summary:

#### JIS Z 2801 (Modified):

The JIS method Z 2801 is a quantitative test designed to assess the performance of antimicrobial finishes on hard, non-porous surfaces. The method can be conducted using contact times ranging from ten minutes up to 24 hours. For a JIS Z 2801 test, non-antimicrobial control surfaces are used as the baseline for calculations of microbial reduction.



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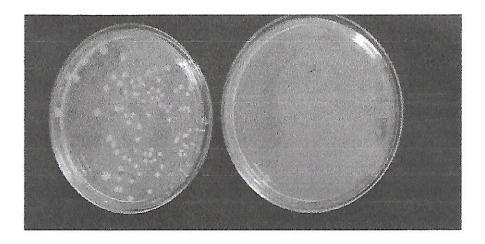
## Summary of the Procedure

- 1. The test microorganism is prepared, by growth in a liquid culture medium.
- 2. The suspension of test microorganism is standardized by dilution in a broth medium.
- 3. Control and test surfaces (Glass surfaces) are inoculated with respective microorganism, and then the microbial inoculum is covered with a thin, sterile film. Covering the inoculum spreads it, prevents it from evaporating, and ensures close contact with the antimicrobial surface.
- 4. Microbial concentrations are determined at "time zero" by elution followed by dilution and plating to growth medium.
- 5. Inoculated, covered control and antimicrobial test surfaces are allowed to incubate undisturbed in a humid environment for 08 hours.
- 6. After incubation, microbial concentrations are determined. Reduction of microorganisms relative to the control surface is calculated and reported.

# Picture of plates

Control

Test





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## **RESULT:**

Test organism (Bacterial cells inoculated per test piece)	Control Sample. (08 hrs result of average viable cells per test piece)	Treated sample (08 hrs result of average viable cells per test piece)	Antimicrobial activity (Criteria not less than 2)	% Reduction +
S. aureus (ATCC 6538) 3 X 10 <sup>5</sup> cfu Log = 5.47	4.4 X 10 <sup>5</sup> cfu /ml Log = 5.651	<01 cfu /ml Log = 0.00	5.65	99.99

End Of The Test Report -

#### REMARKS:

1) Collected sample received.

2) \*Above tested parameters are not part of NABL scope.

3) + included in report as per customer's requirement. It is not a part of the Standard.

Dr. Dilip Zaveri Authorized Signatory Biocare Research (I) Pvt. Ltd.

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