



# हाफकिन प्रशिक्षण, संशोधन व चाचणी संस्था

महाराष्ट्र शासन अनुदानित सोसायटीज रजिस्ट्रेशन अॅक्ट १८६० अधिनियमान्वये नोंदणी कृत स्वायत्त संस्था

भारत सरकार, विज्ञान व प्रौद्योगिक मंत्रालय, मान्यताप्राप्त "वैज्ञानिक आणि औद्योगिक संशोधन संस्था"

## Haffkine Institute for Training, Research & Testing

An Autonomous Grant in aid Institute of Govt. of Maharashtra Registered under Societies Registration Act 1860

Recognised as "Scientific & Industrial Research Organisation" (SIRO) by Govt. of India, Ministry of Science & Technology.



13 AUG 2020

HITRT/Microbiology/ 2855

To

M/s. PACELITE MULTISOLUTION PRIVATE LIMITED.

Floor 7, Plot CS 1487, 710/711,

Prasad Chamber, Tata Road No.2,

Roxy Cinema, Opera House,

Girgaon, Mumbai City,

Maharashtra 400004.

**Subject: *In vitro* Antibacterial and Antifungal efficacy testing of Disinfectant sample labeled as "Goldsheild 86 Surface disinfectant" by Percentage Killing Method.**

**Reference: Your letter dated: 15.7.20.**

Report of *In vitro* antibacterial and antifungal efficacy testing by percentage Killing method of the above mentioned Disinfectant sample labeled as "Goldsheild 86 Surface disinfectant" submitted by you to this Institute, vide your letter dated: 15<sup>th</sup> July. 2020 is enclosed along with.

Thanking you.

Yours truly,

Head

Department of Microbiology

SPV = dv  
13/8/20



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HITRT/Microbiology/ 2855

13 AUG 2020

1.

Report on *In vitro* Antibacterial & Antifungal efficacy testing of sample labeled as "Goldsheild 86 Surface disinfectant" by percentage killing method, submitted by M/s. PACELITE MULTISOLUTION PRIVATE LIMITED. Floor 7, Plot CS 1487,710/711, Prasad Chamber, Tata Road No.2, Roxy Cinema Opera House, Girgaon, Mumbai City, Maharashtra 400004. vide your letter dated: 15.7.20.

Sample labeled as: "Goldsheild 86 Surface disinfectant"

Compositions: Octadecylaminodimethyltrimethoxysilylpropylammonium chloride <1%, Quaternary ammonium compound benzyl-C12-16-Alkyldimethyl chloride <5.0%, Alkyldimethylbenzylammonium Chloride <2%, Alkyl (C12-14) dimethyl (Ethylbenzyl)Ammonium Chloride <2%,

Batch No. : Not mentioned on sample bottle.

Manufacturing date: Not mentioned on sample bottle.

Expiry date: Not mentioned on sample bottle.

Concentration: Undiluted

Test Method: The test is based on following EN standards:  
EN 1040 (1997)-phase 1, EN 1656 (1999)-phase 2, EN 1275 (1997)-phase 1 and EN1657 (1999)-phase 2. (Ref: Seymour S. Block- "Disinfection, Preservation and sterilization" IV & V Edition, publisher: Lippincott, Williams & Wilkins, 2000 to 2005). EN 14561 (2002), EN 14562 (2002), EN 14563 (2002), EN 12353 (2005) and EN 13727 (2007).

Contd. On page no. 2.



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भारत सरकार, विज्ञान व प्रौद्योगिक मंत्रालय, मान्यताप्राप्त "वैज्ञानिक आणि औद्योगिक संशोधन संस्था"

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2.

Numbers of control counts and the numbers of the sample treated counts i.e. colony forming unit (CFU), mentioned in the following table are the average of the duplicate experiment carried out for the above mentioned sample.

### Result and observation: "Goldsheid 86 Surface disinfectant" in undiluted form.

Sr. No.	Test Organism	Killing contact time (Min.)	Initial Control counts (CFU)*	Recovery of organism after the killing / inactivation contact time by "Goldsheid 86 Surface disinfectant" in undiluted form	Percentage killed/ inactivated after the killing/ Inactivation contact time
1	<i>Escherichia coli</i> (ATCC-10148)	5	$3.0 \times 10^7$	$1 \times 10^1$	99.999 %
2	<i>Salmonella typhi</i> (NCTC-786)	5	$6.0 \times 10^7$	$1 \times 10^1$	99.999 %
3	MRSA [Methicillin resistant <i>Staphylococcus aureus</i> (ATCC-25923)]	5	$4.0 \times 10^7$	$1 \times 10^1$	99.999 %
4	<i>Bacillus cereus</i> (ATCC 11778)	5	$3.0 \times 10^6$	$1 \times 10^1$	99.999 %
5	<i>Pseudomonas aeruginosa</i> (Fisher's Immunotype IV)	5	$8.0 \times 10^7$	$1 \times 10^1$	99.999 %
6	<i>Candida albicans</i> (ATCC-10231)	5	$6.0 \times 10^6$	$1 \times 10^1$	99.999 %
7	<i>Aspergillus niger</i> (ATCC-16404)	5	$3.0 \times 10^7$	$5 \times 10^1$	99.999 %

\*Colony Forming Unit

Contd. On page no 3.





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भारत सरकार, विज्ञान व प्रौद्योगिक मंत्रालय, मान्यताप्राप्त "वैज्ञानिक आणि औद्योगिक संशोधन संस्था"

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3.

**Remarks:** Sample solution labelled as "Goldsheild 86 Surface disinfectant" in Undiluted form showed 99.999% killing/inactivation of the test Bacterial species *Escherichia coli* (ATCC-10148), *Salmonella typhi* (NCTC-786), *MRSA* [Methicillin resistant *Staphylococcus aureus* (ATCC-25923)], *Bacillus cereus* (ATCC 11778) and *Pseudomonas aeruginosa* (Fisher's Immunotype IV) as well as Fungal species *Candida albicans* (ATCC-10231) and *Aspergillus niger* (ATCC-16404) in 5 min.

**N. B. :** This report is issued with an explicit understanding that it would neither be used for the purpose of the advertisement nor it would be produced as an evidence in any form without the prior permission of the undersigned. Further, this report is restricted only to the sample submitted to us for testing.

SPV:dw  
13/8/20

Head

Department of Microbiology.