



हाफकिन प्रशिक्षण, संशोधन व चाचणी संस्था

महाराष्ट्र शासन अनुदानित सोसायटीज रजिस्ट्रेशन अक्ट १८६० अधिनियमान्वये नोंदणी कृत स्वायत्त संस्था
भारत सरकार, विज्ञान व प्रौद्योगिकी मंत्रालय, मान्यताप्राप्त "वैज्ञानिक आणि औद्योगिक संशोधन संस्था"

Haffkine Institute for Training, Research & Testing

An Autonomous 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.

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**Report on *In Vitro* anti-bacterial activity of the disinfectant solution sample
"SATOL – FLOOR CLEANER MANUAL", submitted by M/s. Satol Chemicals,
Mumbai – 400 092, vide their letter No. FA / 0101 / dated 09.08.2011.**

Sample labeled as : "SATOL – FLOOR CLEANER MANUAL" solution.

Test procedure : To 5 ml- aliquots of 1 % concentrated disinfectant solution (dilution was done in sterile distilled water) "SATOL – FLOOR CLEANER MANUAL" were placed in sterile test tubes. 0.1 ml of each bacterial culture, containing approximately 10^6 cells, was suspended individually in each tube, mixed thoroughly, and incubated at room temperature. After different intervals of time, a loopful of this suspension from each tube was inoculated to individual tubes containing approximately 8 ml sterile nutrient broth, and these broth tubes were incubated at 37 °C. After 48 hours, the tubes were checked for growth, if any. All the experiment was carried out in duplicate.

Results :

Test Organism	Concentration of "SATOL - FLOOR" CLEANER MANUAL" (in percent)	Viability* of the organism after killing / inactivation contact time for (time in minutes)		
		5	10	15
1) <i>Escherichia coli</i> (ATCC 10148)	1	n	n	n*
2) <i>Salmonella. typhi</i> (NCTC 786)	1	n	n	n
3) <i>Pseudomonas aeruginosa</i> (Fisher's Immunotype IV)	1	n	n	n
4) <i>Staphylococcus. aureus</i> (NCTC 3750)	1	n	n	n

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

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- * n = not viable, i.e., the organism was killed / inactivated.
- 'v' = viable, i.e., the organism was survived.

Remarks: The disinfectant solution sample "SATOL- FLOOR CLEANER MANUAL" in 1 % concentrated form kills / inactivates the test organism *Escherichia. coli* (ATCC 10148), *Salmonella. typhi* (NCTC 786), *Pseudomonas aeruginosa* (Fisher's Immunotype IV) & *Staphylococcus aureus* (NCTC 3750) after a killing / inactivation contact time of 5 (five) minutes.

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


Dr. Abhay Chowdhary
Director.