



# Haffkine Institute For Training, Research & Testing

(Registered under Societies Registration Act, 1860)

20 JUL 2007

HI / BY - R / 5979

To:

M/s. Sanosil Biotech Pvt. Ltd.  
Warden House  
Sir P. M. Road  
Fort  
Mumbai - 400 001.

Sub. : *In Vitro* Anti-microbial (anti-bacterial and anti-fungal) efficacy testing of disinfectant solution sample, labelled as : "VIROSIL".

Ref. : Your letter dated July 04 , 2007.

Reports on *In vitro* anti-microbial (anti-bacterial and anti-fungal) efficacy testing of the above mentioned one disinfectant solution sample, submitted by you to this institute vide your letter dated July 04, 2007, is enclosed along with.

*R.A.D.*

Dr. (Mrs.) R. A. Deshmukh  
Director.



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1.

**Report on *In vitro* anti-bacterial activity of disinfectant solution sample, Brand: "VIROSIL", submitted by M/s. Sanosil Biotech Private Pvt. Ltd., Mumbai, vide their letter, dated 04.07.07.**

**Sample labelled as :** Disinfectant solution.  
Brand Name : "VIROSIL".  
Date of Mfg.: May 2007. Date of Exp.: April 2008.

**Test procedure :** A disinfectant solution sample "VIROSIL" was diluted to 5% concentration (i.e. 1 : 20 diluted in sterile distilled water) in sterile distilled water, and 5-ml aliquots of this diluted disinfectant were placed in sterile test tubes. 0.1 ml of each bacterial culture, containing approximately  $10^7$  cells, was suspended individually in these tubes, mixed thoroughly, and incubated at room temperature. After different intervals of time, a loopful of suspension from each tube was inoculated in individual tubes containing approximately 8 ml sterile nutrient broth. These tubes were incubated at 37 °C. After 48 hours, the tubes were checked for growth or inhibition.

**Results:**

Sr. No.	Test Organism	Viability / inhibition* of the organism in 5 % concentrated (i.e. 1:20 diluted in sterile distilled water)disinfectant solution sample "VIROSIL" after a killing / inactivation contact time for : ( contact time in minutes)				
		5	10	20	30	45
1)	<i>Escherichia coli</i> (ATCC 10148)	v	v	n	n	n
2)	<i>Salmonella typhi</i> (NCTC 786)	v	n	n	n	n
3)	<i>Staphylococcus aureus</i> (NCTC 3750)	v	v	v	v	n
4)	<i>Methicillin Resistant Staphylococcus aureus</i> (ATCC 25923)	v	v	v	v	n
5)	<i>Pseudomonas aeruginosa</i> (Fisher's Immunotype IV)	v	n	n	n	n

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2.

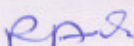
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\* 'n' = Not viable, i.e., the bacterial culture was killed / inactivated.

'v' = viable, i.e. the bacterial culture was survived.

**Remarks:** A disinfectant solution sample "VIROSIL", in 5% concentration (i.e. 1 : 20 diluted form) kills / inactivates the test organisms *Salmonella typhi* (NCTC 786) & *Pseudomonas aeruginosa* (Fisher's Immunotype IV) after a killing / inactivation contact time of ten (10) minutes, *Escherichia coli* (ATCC 10148) after a killing / inactivation contact time of twenty (20) minutes, *Staphylococcus aureus* (NCTC 3750) & *Methicillin Resistant Staphylococcus aureus* (ATCC 25923 ) after a killing / inactivation contact time of forty five (45) 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. (Mrs.) R. A. Deshmukh  
Director.