

# VS BAC GUARD

## HYGIENE

### Description

VS – Bac Guard is a product developed to control various virus which gets formed due to the conditions/environment. This product has been successfully tested at Hoffkine Institute and the test results are mentioned below.

### Application

- It is ethoxilate based.
- Biodegradable.
- Non Toxic.
- Blend of natural essential oils.
- Powerful bactericide (Food Grade).
- Control bacteria with 10 minutes of application.
- Pleasant perfume.
- Effective at very low dose(10 ml in 10 liters).
- Control Cockroach, Mosquitoes, Flies immediately.

### Results

The following bacterial is controlled with 10 minutes

Sr.No	Bacterial	Dose of Bac Guard	Time in minutes

1.	Escherichia Coli	2%	10
2.	Kiebsiella	2%	10
3.	ShigellaFlexneri	2%	10
4.	Pseudomonas	2%	10
5.	MethilinStapylococcus	2%	10
6.	Enterococcus	2%	10
7.	Candida aibicus	2%	10
8.	Aspergilliusniger	2%	10

## Method

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Spraying, Wiping, Mopping etc.

## Application Areas

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House, School, Office, Clinics, Hospital, Large Areas (Industrial, Commerical premises) etc.

## Packing

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Available in 1, 5, 20 liter Packs



# हाफकिन प्रशिक्षण, संशोधन व चाचणी संस्था

महाराष्ट्र शासन अनुदानित सोसायटीज रजिस्ट्रेशन 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 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.



07 APR 2015

HI/BY-R/10685

To  
Mr.  
M/s. Nishka Alkalies & Support Services LLP  
9, 16 Doshi Bhavan,  
2<sup>nd</sup> Carpenter Street,  
Mumbai-400 004.

**Subject:** *In Vitro* anti-bacterial & anti-fungal efficacy testing of the one disinfectant solution sample - Brand- "BAC GUARD-2%".

**Reference:** Your letter No. Nishka / F-30 / Haffkine / 1 / 2015, dated 10.03.2015.

Report of *In vitro* anti-bacterial & anti-fungal efficacy testing of the above mentioned one disinfectant solution sample, submitted by you to this Institute, vide your letter No. Nishka / F-30 / Haffkine / 1 / 2-15, dated 10.03.2015, is enclosed along with.

Yours truly,

Dr. Abhay Chowdhary  
Director.





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

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07 APR 2015

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Report on *In Vitro* Anti-bacterial & anti-fungal efficacy testing of one disinfectant solution sample, Brand- "BAC GUARD- 2%", submitted by M/s. NISHKA ALKALIES SERVICES LLP MUMBAI - 400 004 vide their letter No. Nishka /F-30/Haffkine/1/2015. Date: March 10, 2015.

Description about the sample: Disinfectant Sample. Brand: "BAC GUARD- 2%".

Test Procedure: 5 ml. aliquot of 2% concentrated above mentioned disinfectant sample "BAC GUARD- 2%" was taken in the two different sterile test tubes (for duplicate study), to this 0.1 ml of diluted bacterial culture (24 hours grown) suspension so as to get  $10^6$  colony forming unit (CFU)/ml. was added, this mixture was kept in defined contact time then after proper mixing and different killing / inactivation contact time, a loopful was added in test tube containing sterile nutrient broth. This procedure was repeated for all other bacterial species employed in the test then all the nutrient broth tubes were kept for incubation at  $37^\circ\text{C}$  for 48 hours to observe the growth or inactivation.

This procedure as applied for the fungal species *Candida albicans* (ATCC 10231) & for fungal species (mould) *Aspergillus niger* (ATCC 16404) by using its conidial suspension ( $10^6$  conidia per ml.) using sabouraud's broth as the nutrient medium and nutrient medium tubes were incubated at  $28^\circ\text{C}$  temperature for four days. This procedure was carried out in duplicates.

### Results:

Test Organism	Concentration of "BAC GUARD- 2%"	Viability / inactivation of organism by the 2 % concentrated disinfectant "BAC GUARD-2%" after a contact of (killing / inactivation contact time in minutes)		
		10	20	30
<i>Escherichia coli</i> (ATCC - 25922)	2%	N	N	N*
<i>Klebsiella aerogenes</i> (Clinical Isolate)	2%	N	N	N
<i>Shigella flexneri</i> (Clinical isolate)	2%	N	N	N
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	2%	N	N	N
Methicillin Resistant <i>Staphylococcus aureus</i> {MRSA} (ATCC 25923)	2%	N	N	N
<i>Staphylococcus aureus</i> (NCTC 6538)	2%	N	N	N
<i>Enterococcus faecalis</i> (ATCC 29212)	2%	N	N	N
<i>Candida albicans</i> (ATCC 10231)	2%	N	N	N
<i>Aspergillus niger</i> (ATCC 16404)	2%	N	N	N

\* 'N' = Not viable. i.e. the bacterial or fungal species was killed / inactivated.

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पत्ता : आचार्य दोंडे मार्ग, परळ, मुंबई - ४०० ०१२. दूरध्वनी क्र. ०२२-२४१६०९४७, २४१६०९६१, २४१६०९६२, फॅक्स - ०२२-२४१६१७८७

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email : haffkineinstitute@gmail.com, website: www.haffkineinstitute.org





# हाफकिन प्रशिक्षण, संशोधन व चाचणी संस्था

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

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

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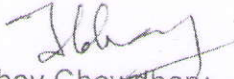
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**Remarks:** The disinfectant solution sample "BAC GUARD- 2%" in 2 % concentrated form kills / inactivates the test microbial species *Escherichia coli* (ATCC 25922), *Klebsiella aerogenes* (Clinical isolate), *Shigella flexneri* (Clinical isolate), *Pseudomonas aeruginosa* (ATCC 15442), *Methicillin Resistant Staphylococcus aureus* {MRSA} (ATCC 25923), *Staphylococcus aureus* (NCTC. 6538), *Enterococcus faecalis* (ATCC 29212), *Candida albicans* (ATCC 10231) & *Aspergillus niger* (ATCC 16404) after the killing / inactivation contact time of 10 (Ten) minutes.

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

  
Dr. Abhay Chowdhary  
Director.