



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.

28 MAR 2012

HI / BY-R/3089

To
Mr. Hemang Jhaveri
HITEN TECHNO PRODUCTS CORPORATION
1102, ATLANTA
209, NARIMAN POINT
MUMBAI - 400 021.

Subject: Testing of U.V. light Suction pump based Air Neutralizer Medical Grade Germicidal Unit. Brand: "OXIRA" Model: "XG Germicidal".

Reference: Your letter dated 09.03.2012.

Sir,

Report on testing of above mentioned air neutralizer, submitted by you to this Institute, vide your letter dated 09.03.2012, is enclosed along with.

Dr. Abhay Chowdhary
Director



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महाराष्ट्र शासन अनुदानित सोसायटीज रजिस्ट्रेशन अॅक्ट १८६० अधिनियमान्वये नोंदणी कृत स्वायत्त संस्था
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1.

Report on testing of one U.V. based Unit XG – AIR NEUTRALIZER, Brand: "OXIRA", submitted by M/s. HITEN TECHNO PRODUCTS CORPORATION, Mumbai – 400 021, vide letter dated 09.03.2012.

Sample Labeled as : U.V. light & Suction pump based "AIR NEUTRALIZER Medical Grade Germicidal Unit". Brand: "OXIRA". Model: "XG GERMICIDAL". Sr. No.: "DDGAAG".

Test Procedure: Initially, the control arial count of bacterial and fungal organisms was ascertain from different location of nonsterile room of size 11 X 13 X 9.5 (H X L X B) feet dimension with one ventilation netted window and controlled accessed. The control counts were done by settle plate method i.e. by exposing open sterile nutrient agar plates to ascertain bacterial counts and by exposing sabouraud's medium plates to ascertain fungal counts at three different location in the room. Such a air sampling was done for 3 minutes, then the nutrient agar plates (for bacterial counts) were closed and kept for incubation for 48 hours at 37 °C, and sabouraud's agar plates were closed and kept for incubation at room temperature (plate sampling were done in duplicate). This procedure was repeated while the above mentioned air neutralizer was in operation, at different time intervals (after air neutralizer was put on). The suction side of the air neutralizer was kept near the window. The microbial counts were taken after the 30 minutes of air neutralizer was kept in operation.*

Results:

Sum of control counts in CFU**of bacteria species of Non-sterile room at two different locations after different time intervals	Sum of control counts in CFU**of bacteria species of room at two different locations while Air neutralizer was put 'ON' after different time intervals (counts taken after 30 minutes of air sterilizer was kept 'ON')	Sum of control counts in CFU**of fungal species of Non-sterile room at two different locations after different time intervals	Sum of control counts in CFU**of fungal species of room at two different locations while Air neutralizer was put 'ON' after different time intervals (counts taken after 30 minutes of air sterilizer was kept 'ON')
At '0' hour: 180	After 30 minutes: 20	At '0' hour: 40	After 30 minutes: 10
After '2' hours: 80	After '1' hour: 15	After '2' hours: 20	After '1' hour: 7
After '4' hours: 88	After '2' hours: 7	After '4' hours: 15	After '2' hours: 4
After '6' hours: 83	After '4' hours: 4	After '6' hours: 15	After '3' hours: 2
	After '6' hours: 2		After '4' hours: 1
			After '6' hours: 1

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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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महाराष्ट्र शासन अनुदानित सोसायटीज रजिस्ट्रेशन अक्ट १८६० अधिनियमान्वये नोंदणी कृत स्वायत्त संस्था
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2.

Contd.

* Microbial counts (Bacterial & Fungal) in air were done as per the "Guidelines on test method for environmental monitoring for aseptic Dispensing facilities". Produced by A Working group of the Scottish Quality Assurance Specialist Interest Group, Second Edition, February 2004. Para: 10.6 with minor modifications.

** CFU : Colony forming Units.

Remarks: As far as results obtained (as mentioned in the above table), it can be concluded that the above mentioned air neutralizer when it is in operation (Air neutralizer was put on), can significantly reduce bacterial burden by 96.11% after two (2) hours (** $p < 0.0015$) and fungal burden by 95% after two (2) hours (** $p < 0.009$).

*** Significance calculated using "Paired T Test". p =probability of error, where $p < 0.05$ is significant.

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 to the sample submitted to the department only.

Dr. Abhay Chowdhary
Director.