



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.



C Duplicate Report

CERTIFICATE

Date: 29/10/2020

This is to state that machine "Optimaser 30" (Machine Number : 04200M30L0304) manufactured by S.S. Medical Systems (I) Pvt Ltd , Mumbai is tested on 22nd October, 2020, while it was operational in Bharat Ratna Dr. Ambedkar Hospital, Kandivali by using biological systems like bacteria, fungus and spores, in the Microbiology department of Haffkine Institute, Mumbai .

These biological systems after testing in the machine "Optimaser 30" (Machine Number: 04200M30L0304) were found to be completely killed when cultured in various nutrient media.

Hence complete decontamination of these biological systems seems to be occurred.

SPV 29/10/20

Dr. Shashikant P. Vaidya
Assistant Director and Head,
Microbiology Department.

C Duplicate Report]

CONCISE TEST REPORT (Machine No: 04200M30L0304)

29/10/2020

Sr. No.	Study	Results	Remarks
1	Decontamination of Bacterial suspension (As per the manufacturer's claim temperature inside the machines was 100 °C temperature & hold period of biological systems in it was 30 minutes)		
	1. <i>Escherichia coli</i> std. strain ATCC 8739	No growth	Complete decontamination
	2. <i>Bacillus subtilis</i> std. strain ATCC 6633	No growth	Complete decontamination
2	Decontamination of Fungal suspension (As per the manufacturer's claim temperature inside the machines was 100 °C temperature & hold period of biological systems in it was 30 minutes)		
	1. <i>Candida albicans</i> standard strain ATCC 10231	No growth	Complete decontamination
	2. <i>Aspergillus niger</i> standard strain ATCC 16404	No growth	Complete decontamination
3	Decontamination of Spores of <i>Bacillus atrophaeus</i> (As per the manufacturer's claim temperature inside the machines was 100 °C temperature & hold period of biological systems in it was 30 minutes)		
	1. Spores of <i>Bacillus atrophaeus</i>	No growth	Complete decontamination
4	Decontamination of Environmental isolates (As per the manufacturer's claim temperature inside the machines was 100 °C temperature & hold period of biological systems in it was 30 minutes)		
	1. <i>Staphylococcus aureus</i>	No growth	Complete decontamination

SPV:HV 29/10/20
 Dr. Shashikant P. Vaidya
 Assistant Director and Head,
 Microbiology Department.



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Study Number: 01/BS/ DMicro/HI/2020

[Duplicate Report]

Machine : Optimaser 30	Machine Number : 04200M30L0304
Manufacturer : S.S. Medical Systems(I) Pvt Ltd.	Location : Bharat Ratna Dr. Ambedkar Hospital, Kandivali

Date of testing : 22/10/2020	Date of completion of test : 29/10/2020
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Observations							
Sample : Bacterial suspensions							
Media used : Nutrient broth							
Incubation temperature : 37 °C							
Bacteria tested	1 st day	2 nd day	3 rd day	4 th day	5 th day	6 th day	7 th day
1. <i>Escherichia coli</i> standard strain ATCC 8739	NG	NG	NG	NG	NG	NG	NG
2. <i>Bacillus subtilis</i> standard strain ATCC 6633	NG	NG	NG	NG	NG	NG	NG
Positive control	G	G	G	G	G	G	G
Negative control	NG	NG	NG	NG	NG	NG	NG
Key : G : growth / NG : No growth							

Remarks: No growth of test bacteria was observed after incubation for 7 days at 37°C in nutrient broth after decontamination for 100°C temperature and hold period of 30 minutes in microwave disinfection system Number 04200M30L0304. There were 7 log reductions in bacterial count.

Conclusion: Complete decontamination /100% killing of test bacteria was occurred in microwave disinfection system Number 04200M30L0304.

SPVaidya 29/10/20
Dr. Shashikant P. Vaidya
Assistant Director and Head
Microbiology Department

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

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Study Number : 02/F/ DMicro/HI/2020

[Duplicate Report]

Machine : Optimaser 30	Machine Number : 04200M30L0304
Manufacturer : S.S. Medical Systems(I) Pvt Ltd.	Location : Bharat Ratna Dr. Ambedkar Hospital, Kandivali

Date of testing : 22/10/2020	Date of completion of test : 29/10/2020
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Observations							
Sample : Fungal suspensions							
Media used: Sabouraud's broth				Incubation temperature: 20-25°C			
Fungus tested	1 st day	2 nd day	3 rd day	4 th day	5 th day	6 th day	7 th day
1. <i>Candida albicans</i> standard strain ATCC 10231	NG	NG	NG	NG	NG	NG	NG
2. <i>Aspergillus niger</i> standard strain ATCC 16404	NG	NG	NG	NG	NG	NG	NG
Positive control	G	G	G	G	G	G	G
Negative control	NG	NG	NG	NG	NG	NG	NG
Key : G : growth / NG : No growth							

Remarks: No growth of test fungi was observed after incubation for 7 days at 37°C in nutrient broth after decontamination for 100°C temperature and hold period of 30 minutes in microwave disinfection system Number 04200M30L0304. There were 7 log reductions in fungal count.

Conclusion: Complete decontamination/100% killing of test fungi were occurred in microwave disinfection system Number 04200M30L0304.

S.P.V. ds 29/10/20

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Microbiology Department

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

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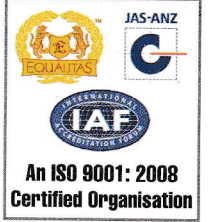


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Study Number : 03/BSp/ DMicro/HI/2018

Complicate Report

Machine : Optimaser 30	Machine Number : 04200M30L0304
Manufacturer : S.S. Medical Systems(I) Pvt Ltd.	Location : Bharat Ratna Dr. Ambedkar Hospital, Kandivali

Date of testing : 22/10/2020	Date of completion of test : 29/10/2020
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Observations							
Sample : Spores of <i>Bacillus atrophaeus</i>							
Media used: Nutrient broth							
Incubation temperature: 35°C							
Bacterial spores tested	1 st day	2 nd day	3 rd day	4 th day	5 th day	6 th day	7 th day
Spore strips of <i>Bacillus atrophaeus</i>	NG	NG	NG	NG	NG	NG	NG
Positive control	NG	NG	NG	G	G	G	G
Negative control	NG	NG	NG	NG	NG	NG	NG
Key : G : growth / NG : No growth							

Remarks: No growth of test spores was observed after incubation for 7 days at 37°C in nutrient broth after decontamination for 100°C temperature and hold period of 30 minutes in microwave disinfection system Number 04200M30L0304. There were 7 log reductions in spores count.

Conclusion: Complete decontamination/100% killing of test spores was occurred in microwave disinfection system Number 04200M30L0304.

SPV *dy* 29/10/20

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Study Number: 04/EnvB / DMicro/HI/2020

C Duplicate Report

Machine : Optimaser 30	Machine Number : 04200M30L0304
Manufacturer : S.S. Medical Systems(I) Pvt Ltd.	Location : Bharat Ratna Dr. Ambedkar Hospital, Kandivali

Date of testing : 22/10/2020	Date of completion of test : 29/10/2020
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Observations							
Sample : Bacterial suspensions (Isolated from environment)							
Media used : Nutrient broth							
Incubation temperature : 37 °C							
Bacteria tested	1 st day	2 nd day	3 rd day	4 th day	5 th day	6 th day	7 th day
1. <i>Staphylococcus aureus</i>	NG	NG	NG	NG	NG	NG	NG
Positive control	G	G	G	G	G	G	G
Negative control	NG	NG	NG	NG	NG	NG	NG
Key : G : growth / NG : No growth							

Remarks: No growth of test bacteria was observed after incubation for 7 days at 37°C in nutrient broth after decontamination for 100°C temperature and hold period of 30 minutes in microwave disinfection system Number 04200M30L0304. There were 7 log reductions in bacterial count.

Conclusion: Complete decontamination /100% killing of test bacteria was occurred in microwave disinfection system Number 04200M30L0304.

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