



DEPARTMENT OF MICROBIOLOGY

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, JODHPUR

Hospital Infection Control Laboratory

OptiMaser machine cycle for disinfection of Personalized Protective Equipment (PPE) Coverall suit was tested. The following procedure was used for disinfection of used PPE coverall suit using biological indicator in the form of ampoules containing 10^6 spores of *Bacillus atrophaeus*. Details of Test Procedure are as follows-

Date of Run: Cycle1- 02/06/2020 Cycle 2- 05/06/2020

Biological Indicator-*Bacillus atrophaeus* (10^6 spores)

Expiry Date- 12/2020

Lot No. 4131

Incubation conditions: Ampoules containing 10^6 spores of *Bacillus atrophaeus* were incubated aerobically at 37°C for 48 hours. Subsequent subcultures of biological indicators was done on blood agar plate after 48 hours and incubated at 37°C for 24 hours.

Test Run Cycle	Temperature	Time duration	Biological Indicator	Test result
Cycle 1	70°C	15 minutes	Success	Satisfactory
Cycle 2	70°C	15 minutes	Success	Satisfactory

Result: -

Test Run 1 was performed at 70°C for 15 minutes duration. No color change of biological indicator was observed after 48 hours aerobic incubation at 37°C . Subculture was also done from the biological indicator after 48 hours aerobic incubation at 37°C on blood agar plate and subsequently incubated at 37°C for 24 hours. No growth was observed on sub-cultured blood agar plate. The Result was Satisfactory.

Test Run 2 was performed at 70°C for 15 minutes duration. No color change of biological indicator was observed after 48 hours aerobic incubation at 37°C . Subculture was also done from the biological indicator after 48 hours aerobic incubation at 37°C on blood agar plate and subsequently incubated at 37°C for 24 hours. No growth was observed on sub-cultured blood agar plate. The Result was Satisfactory.

.Inference:- OptiMaser cycle run at 70°C for 15 min was satisfactory for disinfection of PPE Coverall suit, tested by *Bacillus atrophaeus* indicator.

Dr. Vibhor Tak

Associate Professor

Department of Microbiology

डॉ. विभोर टाक
Dr. Vibhor Tak
सह-आचार्य
Associate Professor
सूक्ष्म जीव विज्ञान विभाग
Department of Microbiology
अखिल भारतीय आयुर्विज्ञान संस्थान, जोधपुर
All India Institute of Medical Sciences, Jodhpur

Dr. Vijaya Lakshmi Nag

Professor & Head

Department of Microbiology

Dr. Vijaya Lakshmi Nag, MD
Professor and Head
Department of Microbiology
All India Institute of Medical Sciences
Jodhpur(Raj.)-342 005 INDIA