PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

STANDARD OPERATING PROCEDURE	
Department: Microbiology	**SOP No.:**
Title: Preparation of Culture Media Plates and Slants	**Effective Date:**
Supersedes: Nil	**Review Date:**
Issue Date:	**Page No.:**

1.0 OBJECTIVE:

To lay down a procedure for Preparation of culture media plates and slants.

2.0 SCOPE:

This SOP is applicable for Preparation of culture media plates and slants in Microbiology Laboratory

3.0 RESPONSIBILITY:

Officer / Executive - Microbiology

4.0 ACCOUNTABILITY:

Head QC

5.0 ABBREVIATION:

°C	Degree centigrade
IPA	Isopropyl Alcohol
LAF	Laminar Air Flow
Ltd.	Limited
ML	Microbiology Laboratory
No.	Number
Pvt.	Private
QA	Quality Assurance
USP	United State Pharmacopeia
SOP	Standard Operating Procedure

6.0 PROCEDURE:

6.1 PREPARATION OF MEDIA PLATES:

6.1.1 Prepare the required quantity of media as per SOP of "Receipt, Approval and Preparation of Culture Media" SOP.

6.1.2 Heat to dissolve the media if required, during heating shake the media regularly to avoid the overheating.

6.1.3 After heating dispense the media as per requirement in flasks/Bottles.

6.1.4 Keep the media flasks/ Bottles in autoclave and sterilize the slants as per validated time and temperature.

6.1.5 After sterilization cycle completion takes out the media from autoclave.

6.1.6 The sterilized Agar media and sterilized petriplates kept in pass box provided to concern area.

6.1.7 Enter in to the concern area and clean the LAF bench with 0.22µ filtered 70% IPA.

6.1.8 Pour approx 20-25 ml agar media (cool up to 45°C) in each petriplate and allow to solidifying.

6.1.9 **Pre-incubation:** Pre incubate the agar media plates at 30-35°C for 24 -48 hours.

6.2 PREPARATION OF SLANTS:

6.2.1 Prepare the required quantity of media as per SOP of "Receipt, Approval and Preparation of Culture Media" SOP.

6.2.2 Heat to boil the medium and mix properly.

6.2.3 Dispense about 10-12 ml agar media in glass test tubes and plugged with cotton/cap.

6.2.4 Keep the slant tubes in autoclave and sterilize the slants as per validated time and temperature.

6.2.5 After completion of sterilization cycle take out the slants from autoclave and allows solidifying by tilting it at about 30°C and placing in incubator for pre incubation at 30-35°C for 24-48 hours.

7.0 ANNEXURES:

Not Applicable

ENCLOSURES: SOP Training Record

8.0 DISTRIBUTION:

- Controlled Copy No. 01 — Quality Assurance
- Controlled Copy No. 02 — Microbiology Laboratory
- Master Copy — Quality Assurance

9.0 REFERENCES:

USP Chapter <1117> Microbiological Best Laboratory Practices

10.0 REVISION HISTORY:

CHANGE HISTORY LOG

Revision No.	Change Control No.	Details of Changes	Reason for Change	Effective Date	Updated By