



# 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 Microbiological Laboratory.

### 3.0 RESPONSIBILITY:

Microbiologist QC

### 4.0 ACCOUNTABILITY:

Head QC

### 5.0 PROCEDURE:

#### 5.1 PREPARATION OF MEDIA PLATES:

**5.1.1** Prepare the required quantity of media, to be prepared as per SOP.

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

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

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

**5.1.5** After sterilization cycle is over take out the media from autoclave.

**5.1.6** The sterilized Agar media and sterilized petriplates to the pass box provided to the aseptic area.

**5.1.7** Enter in to the LAF Room and Clean the LAF bench by 70% v/v IPA.

**5.1.8** Pour approx. 15-20 ml medium (cool up to 45°C) in each petriplate and allow solidifying.

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

#### 5.2 PREPARATION OF SLANTS:

**5.2.1** Prepare the required quantity of media, slant of which to be prepared as per SOP.

**5.2.2** Heat to boil to mix the medium properly.

**5.2.3** Dispense about 8-9 ml medium in glass test tubes (size 18 x 150 mm) and plugged with cotton and then wrap with aluminum foil.



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

**5.2.5** After sterilization cycle is over take out the slants from autoclave and allows solidifying by tilting it at about 30°C and placing in incubator for pre incubation 30-35°C for 24 hours.

### 6.0 REFERENCES:

USP 36 Volume 1-A *General Information* / <1117> Microbiological Best Laboratory Practices

### 7.0 ANNEXURES:

Not Applicable

**ENCLOSURES:** SOP Training Record

### 8.0 DISTRIBUTION:

- Controlled Copy No. 01      Quality Assurance Department
- Controlled Copy No. 02      Quality Control Department
- Master Copy                      Quality Assurance Department

### 9.0 ABBREVIATION:

°C                      Degree centigrade  
BOD                  Biological Oxygen Demand  
GPT                  Growth Promotion Test  
LAF                  Laminar Air Flow  
No.                    Number  
QC                    Quality Control  
QA                    Quality Assurance  
USP                  United State Pharmacopeia  
SOP                  Standard Operating Procedure

### 10.0 REVISION HISTORY:

#### CHANGE HISTORY LOG

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