



## STANDARD OPERATING PROCEDURE

<b>Department:</b> Microbiology	<b>SOP No.:</b>
<b>Title:</b> Procedure for Cleaning and Operation of Laminar Air Flow Unit	<b>Effective Date:</b>
<b>Supersedes:</b> Nil	<b>Review Date:</b>
<b>Issue Date:</b>	<b>Page No.:</b>

### 1.0 OBJECTIVE:

To lay down a Procedure for cleaning and Operation of Laminar Air Flow Unit.

### 2.0 SCOPE:

This SOP is applicable for cleaning and Operation of Laminar Air Flow Unit in Microbiology Section of Quality Control Laboratory.

### 3.0 RESPONSIBILITY:

Officer / Executive - Microbiologist

### 4.0 ACCOUNTABILITY:

Head – QC

### 5.0 PROCEDURE:

#### 5.1 GENERAL CONDITIONS:

5.1.1 Magnehelic gauges reading should be within the specified limits.

5.1.2 Filter should be cleaned as per schedule / requirements.

#### 5.2 OPERATION:

5.2.1 Connect the main switch to main supply. Switch “ON” the mains.

5.2.2 There are two switches and a magnehelic gauge in the side panel of instrument.

1. Air
2. Light

5.2.3 Clean the working bench of LAF with cotton moistened in filtered 70 % IPA or approved disinfectant as per schedule in a straight and superposed way.

5.2.4 The airflow should be kept “ON” for about 30 min before carrying out work under LAF. Check the reading of Magnehelic Gauge; it should be in between 10 to 15 when airflow is ON.

5.2.5 During working switch “ON” the tube light. After completion of work switch “OFF” the light and airflow of LAF.

5.2.6 After completion of work clean the surfaces of the LAF with filtered 70 % IPA with approved disinfectant as per schedule.

5.2.7 Record the operation OF LAF details as per Format, Titled “**Operation Log Book**” in SOP, Titled “**Procedure for Operation and Calibration of Heating Block**”.



# PHARMA DEVILS

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### 5.3 CLEANING:

- 5.3.1** All completion of testing activity Air blower will be switched "OFF " after 10 minutes from completion of testing activity.
- 5.3.2** Remove the Pre-Filters, put them in Poly Bag and take to the defined or Designed Area at Utility Service Floor for cleaning.
- 5.3.3** Cleaning the Pre-Filters by wiping and clean the Pre Filters using Purified Water followed by Compressed Air.
- 5.3.4** Mop the whole LAF unit with 70 % IPA solution.
- 5.3.5** **Frequency of Pre Filter Cleaning** – Monthly / as or when required / in case of Molecule change over.
- 5.3.6** Carry out the Preventive Maintenance as per the regular schedule.
- 5.3.7** Record the LAF Grill and Pre Filter cleaning details in **Annexure-I**, Titled "LAF Grill and Pre Filter Cleaning Record".

### 6.0 REFERENCES:

Not Applicable

### 7.0 ANNEXURES:

ANNEXURE No.	TITLE OF ANNEXURE	FORMAT No.
Annexure - I	LAF Grill and Pre Filter Cleaning Record	

**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 ABBREVIATIONS:

IPA	Isopropyl Alcohol
ID No.	Identification Number
LAF	Laminar Air Flow
Ltd.	Limited
QA	Quality Assurance
QC	Quality Control
SOP	Standard Operating Procedure



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### 10.0 REVISION HISTORY:

#### CHANGE HISTORY LOG

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

