



PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

STANDARD OPERATING PROCEDURE

Department: Microbiology	SOP No.:
Title: Operation of Laminar Air Flow (LAF)	Effective Date:
Supersedes: Nil	Review Date:
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1.0 OBJECTIVE:

1.1 To lay down the Procedure for Operation of Laminar Air Flow (LAF).

2.0 SCOPE:

2.1 This procedure is applicable for Microbiology Laboratory, Production area and warehouse.

3.0 RESPONSIBILITY:

3.1 Microbiologist is responsible for performing Operation of Laminar Air Flow (LAF).

4.0 ACCOUNATABILITY:

4.1 Head Microbiology shall be accountable for SOP.

5.0 EHS CONSIDERATIONS:

5.1 Ensure the UV light is Switch OFF before operation of LAF.

5.2 Do not disturb the laminarity of LAF while performing the operation.

6.0 PROCEDURE:

6.1 Equipment details:

6.1.1 Make: Aeromech

6.1.2 Equipment ID:

6.2 Switch on the "AIR" switch situated on the control panel on right hand side of the equipment so that that blower on the laminar unit is turned 'ON'.





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- 6.3 Ensure the LAF pressure gauge and it should be within limits (05–15mm of WC).
- 6.4 Check the burning hour of UV light should not exceed more than 6000 hours. UV light should be replaced after specified burning period.
- 6.5 Switch “ON” the UV light situated on the same panel and keep it burning for at least 20 minutes.
- 6.6 Switch off the UV before starting the operations.
- 6.7 Switch on the light fitted on the ceiling of the chamber for carrying out operations in the chamber.
- 6.8 Post-operational cleaning:
 - 6.8.1 Clean any remaining water or waste liquid material spilled on the laminar air flow platform properly with a sterile clean lint free cloth.
 - 6.8.2 After completion of work, switch OFF the Air Flow and clean the equipment with lint free cloth mop with IPA 70% solution.
 - 6.8.3 Properly clean the working station followed by side glass and then ceiling of the chamber with IPA 70% solution.
- 6.9 Switch OFF the power of the laminar air flow unit including the blowers and visible light.
- 6.10 Document the LAF usage logs in Annexure I.
- 6.11 Calibration of magnehelic gauge to be done in once in a year.

7.0 DEFINITIONS AND ABBREVIATIONS

- | | | | |
|-----|-----|---|-------------------|
| 7.1 | UV | - | Ultra violet |
| 7.2 | IPA | - | Isopropyl alcohol |
| 7.3 | LAF | - | Laminar Air Flow |
| 7.4 | mm | - | millimeter |
| 7.5 | % | - | percentage |
| 7.6 | WC | - | water column |

8.0 REFERENCE

- 8.1 NA



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9.0 ANNEXURES

9.1 Annexure I: Laminar Air Flow Usage Record

10.0 DISTRIBUTION DETAILS

10.1 Controlled copy of this SOP shall be distributed to Quality Assurance and Microbiology department.

11.0 REVISION HISTORY

Supersedes SOP No.	Change Control No.	Reason for revision