



# PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

## STANDARD OPERATING PROCEDURE

**Department:** Microbiology

**SOP No.:**

**Title:** Operation of Oil Free Vacuum Pump

**Effective Date:**

**Supersedes:** Nil

**Review Date:**

**Issue Date:**

**Page No.:**

### 1.0 OBJECTIVE

1.1 To lay down the Procedure for operation of oil free vacuum pump.

### 2.0 SCOPE

2.1 This procedure is applicable for Microbiology Laboratory.

### 3.0 RESPONSIBILITY

3.1 Microbiologist is responsible for operation of oil free vacuum pump.

### 4.0 ACCOUNTABILITY

4.1 Head Microbiology

### 5.0 EHS CONSIDERATIONS

5.1 Always use tuff glass wall filtration flask for filtration.

5.2 Don't leave unattended activity while using the pump.

5.3 Ensure that there is no any liquid in tubing, used for evacuation of the vacuum.

### 6.0 PROCEDURE

6.1 Connect the power cord to the mains supply.

6.2 Connect the one end of flexible silicon pipe to the vacuum outlet of the pump.

6.3 Connect the other end of the pipe to the side arm glass flask or manifold in which vacuum has to be created.

6.4 Fit the filtration assembly on the mouth of the side arm flask.

6.5 Ensure all the connections should be leak proof.

6.6 Switch "ON" the mains switch and start the filtration activity.

6.7 Pump motor starts rotating and creates vacuum in the side arm flask.



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6.8 Due to vacuum force, solution gets filter.

6.9 After completion of the filtration, switch off the mains.

6.10 During filtration, take care that solution should not enter in the pump through the flexible pipe.

### 7.0 DEFINITIONS AND ABBREVIATIONS

7.1 NA

### 8.0 REFERENCE

8.1 NA

### 9.0 ANNEXURES

9.1 NA

### 10.0 DISTRIBUTION DETAILS

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

### 11.0 REVISION HISTORY

Supersedes SOP No.	Change Control No.	Reason for revision