



## STANDARD OPERATING PROCEDURE

<b>Department:</b> Microbiology	<b>SOP No.:</b>
<b>Title:</b> Filtration of IPA	<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 filtration of IPA.

### 2.0 Scope

This SOP is applicable for filtration of IPA used in aseptic areas.

### 3.0 Responsibility

Technician : Filtration.  
Officer and Above Production : Implementation of Procedure.

### 4.0 Accountability

Production Head.

### 5.0 Procedure

- 5.1 Ensure that availability of pre sterilized 0.22 $\mu$  membrane filter with filtration assembly, pressure vessels, silicon tubes and SS clamps.
- 5.2 Ensure that the availability of freshly prepare 70% IPA solution in pressure vessel.
- 5.3 Connect the silicon tube to up stream of filtration assembly and then connect the other end of tube to out let of pressure vessel containing 70% IPA.
- 5.4 Connect the silicon tube to down stream of the membrane filtration assembly and connect the other end to the filtrate collection pre sterilized pressure vessel.
- 5.5 Connect compressed air tube to inlet of the pressure vessel containing 70% IPA to be filtered.
- 5.6 Tie the clamp at the joints to avoid spoilage during processing.
- 5.7 Ensure that all the connection clamps are firmly tight.
- 5.8 Open the valve of compressed air line and increase the pressure from pressure regulator up to 1.5 kg/cm<sup>2</sup> and build up the air pressure in pressure vessel.
- 5.9 Open the air vent valve of membrane filtration assembly to remove the air bubbles so that the rate of filtration remains satisfactory.
- 5.10 Carry out the operation till all the 70% IPA solution gets filtered.
- 5.11 Check the filter integrity as per SOP before and after filtration.



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**5.12** Perform the filtration activity under LAF.

**6.0 Annexure (S)**

NA

**7.0 Reference (S)**

SOP No:....

**8.0 Glossary**

SOP : Standard Operating Procedure.

LAF : Laminar air flow.

IPA : Isopropyl Alcohol

No. : Number

SS : Stainless Steel.