	Title: Procedure for Fogging of testing areas of Microbiology Laboratory	SOP NUMBER :	SOP/PMH/011-00
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1.0 OBJECTIVE

To lay down the procedure for fogging of Microbiology testing areas.

2.0 SCOPE

This procedure is applicable for fogging of Microbiology testing areas at Pharma Micro Hub Pvt Ltd.

3.0 RESPONSIBILITY

3.1 Personnel who are involved in fogging activity are responsible to adherence to this procedure.

4.0 ACCOUNTABILITY

4.1 Head Microbiology or his designee is accountable for compliance of this SOP.

5.0 PROCEDURE:

5.1 Precautions:

- 5.1.1 Wear the PPE equipment's like goggles, nose mask and hand gloves while doing the fogging.
- 5.1.2 Do not touch the blower-head during operation as it gets heated due to air-friction.
- 5.1.3 Always ensure "Air-Filter" is in place before switch ON the fogger.
- 5.1.4 Do not enter the areas during fogging.

5.2 Fogging procedure:

- 5.2.1 microbiology personnel should request to HVAC personnel for switch OFF the respective Air Handling Unit (AHU) before start of the fogging as per the Annexure-I.
- 5.2.2 Determine the volume of area to be fogging and volume of fogging solution needed are calculated by using the following formula:

Total area to be fogged (ft³) = Length (ft) x Width (ft) x Height of area (ft.)


Quantity of disinfectant (mL) = Total area to be fogged (ft³) X application rate

Note: As per manufacturing recommendation, the application rate of 5% Care p solution is 0.085mL/ one cubic feet.

5.3 Calculate the flow rate:

- 5.2.3 Pour the 1000mL of liquid in to the fogger tank and adjust the flow rate nozzle with one rotation and adjust the timer for 5 minutes, switch ON the toggle switch.

Flow rate = Initial volume of the fogging liquid (in mL) – left over volume in liquid tank (in mL).

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Initial volume of the fogging solution is 1000mL.

left over volume is 600mL.

Flow rate: 1000 ml-600 ml = 400ml/5 min.

Hence liquid flow rate of fogger = 80mL/min.

5.4 Calculate the total fogging time:

5.4.1 Determine the total fogging time are calculated by using the following formula:

Time required = Total disinfectant solution to be fogged / flow rate

For e.g. Total disinfectant solution to be fogged = 220 ml

flow rate =80ml/min.

Total fogging time = 220/80= 2.75

5.4.2 Pass the fogger through the dynamic pass box of respective area.

5.4.3 Microbiology personnel enter into the respective area by following respective entry and exit procedures.

5.4.4 Ensure that no activity is being performed during the fogging in respective entry and exit procedures.

5.4.5 Ensure that the respective Air Handling Unit (AHU) are switched off before start of the fogging.

5.4.6 Pour the prepared fogging solution in to the fogger tank.

5.4.7 By using digital timer of fogger, set the required time and operate the fogger as per SOP, then exit the area immediately as per respective procedure and enter the details in Annexure-II.

5.4.8 After fogging completion in respective area, remove the foggers from the rooms and allow the room for 1 hour of disinfectant contact time.

5.4.9 After 2 hour, request for HVAC personnel to switch ON the respective Air Handling Unit (AHU).


5.4.10 Clean the areas as per the routine procedure before using the areas for the testing activity.

5.4.11 Clean the fogger as per SOP.

5.4.12 If any malfunction of the instrument occurs inform to the immediate supervisor/Head-Microbiology for necessary action.

5.5 Frequency :

5.5.1 Before qualification of new facilities.

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5.5.2 Microbial counts exceeding the established limits.

5.5.3 Any major accidental spill/ fall of culture media.

5.5.4 After any major maintenance work in the area.

6.0 ABBREVIATIONS

- 6.1 AHU : Air handling unit
6.2 HVAC : Heat ventilation and air control
6.3 mL : Milliliter
6.4 ft³ : Cubic feet

7.0 ANNEXURES

- 7.1 Annexure-I: Request for operation of AHU during Fogging in Microbiology Area
7.2 Annexure-II: Microbiology area fogging details Log


8.0 REFERENCES

- 8.1 Entry & exit procedure for microbiology testing area.

9.0 CHANGE HISTORY

- 9.1 New SOP

END OF DOCUMENT

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ANNEXURE-I

REQUEST FOR OPERATION OF AHU DURING FOGGING IN MICROBIOLOGY AREA

To,
Engineering Department.

Kindly switch ON/ OFF the following AHUs of Microbiology Department

AHU No.	Time		Reason for request
	Off Date/Time	On Date/Time	

Requested by:
Sign &Date

Approved by:
Sign &Date

Received by:
Sign &Date

PHARMA MICRO HUB

