



# PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

## STANDARD OPERATING PROCEDURE

**Title:** Cleaning, Calibration and Operation of M Air T Air Sampler

<b>SOP No.:</b>		<b>Department:</b>	Microbiology
		<b>Effective Date:</b>	
<b>Revision No.:</b>	00	<b>Revision Date:</b>	
<b>Supersede Revision No.:</b>	Nil	<b>Page No.:</b>	1 of 4

### 1.0 OBJECTIVE

To lay down procedure for cleaning, calibration and operation of M Air T air sampler.

### 2.0 SCOPE

This SOP is applicable for all the M Air T air samplers, Make - Millipore, used in microbiology laboratory.

### 3.0 RESPONSIBILITY

Prepared by - Executive Microbiology

Checked by - Assistant Manager Microbiology / QC

Approved by - Head QA, QC

### 4.0 PROCEDURE

#### 4.1 Placing the Petri plate in the sampler

4.1.1 Unlock and remove the micro perforated sieve from the tester.

4.1.2 Remove the cover from the sieve. Autoclave the sieve for 30 min. at 121°C and sanitize the external surface of the tester with alcohol.

4.1.3 Position the wings of the cassette into the recessed area of the tester head.

4.1.4 Return the cassette in position by holding on to its wings. Remove the lid and place it on the bench, internal face down.

4.1.5 Lock the micro perforated sieve into position.

#### 4.2 Switching the Machine ON

4.2.1 Push the ON/OFF button to switch ON the machine.

4.2.2 After the machine is switched ON previously sampled air volume will be displayed on the display.

#### 4.3 Setting the cycle parameters

##### 4.3.1 Adjusting the volume -

4.3.1.1 To set the volume push the LITRES button, the previously selected volume appears on the display.

4.3.1.2 To access other preset volumes press the litre button once preset volumes are 25L, 50L, 100L, 250L, 500L, 750L, and 1000L.



# PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

## STANDARD OPERATING PROCEDURE

**Title:** Cleaning, Calibration and Operation of M Air T Air Sampler

<b>SOP No.:</b>		<b>Department:</b>	Microbiology
		<b>Effective Date:</b>	
<b>Revision No.:</b>	00	<b>Revision Date:</b>	
<b>Supersede Revision No.:</b>	Nil	<b>Page No.:</b>	2 of 4

4.3.1.3 To change the preset volume that is required then hold the litres button down until the tester display indicates the desired sampling volume.

4.3.1.4 Preset sampling volumes available are

25 L—30—35—40---45---

50 L—60—70—80—90

100L -110-120—130—140—150—160—170—180—190—200—210--220--

230 - 240

250L-275—300—325—350—375—400—425—450—475

500L—550—600—650—700

750L-800-850—900—950—

1000L

**4.3.2** Adjusting the Timer -

4.3.2.1 To modify the setting, hold down the START /DELAY ↑button. The display shows previously selected value and starts to count down the time (LCD displays flashes).

4.3.2.2 Time can be changed in increments of 5 minutes up to one hour.

4.3.2.3 To validate and start the count, press down the START/DELAY button again.

4.3.2.4 To stop, press the ON/OFF button.

**4.4** Starting the cycle

4.4.1 After setting the sampling parameter and timer press the START /DELAY button twice.

4.4.2 Perform the air sampling in the pre- defined approved locations as per the Environment monitoring SOP.

4.4.3 Perform the air sampling at workbench level.

4.4.4 When the display indicates EOC (End of cycle), unlock the sieve, remove it, and put the lid back on the cassette.

4.4.5 To remove the cassette from the tester head lift the cassette while lift the cassette while finally holding the edge.

4.4.6 Label the date, location no., done by, media used and shift on the cassette and incubate in the upside down position.



# PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

## STANDARD OPERATING PROCEDURE

**Title:** Cleaning, Calibration and Operation of M Air T Air Sampler

<b>SOP No.:</b>		<b>Department:</b>	Microbiology
		<b>Effective Date:</b>	
<b>Revision No.:</b>	00	<b>Revision Date:</b>	
<b>Supersede Revision No.:</b>	Nil	<b>Page No.:</b>	3 of 4

### 4.5 Calibration

Calibration is done by supplier at least once in a year.

### 4.6 Cleaning

4.6.1 Clean the micro perforated sieve with 70% IPA or autoclaved before use.

4.6.2 Decontaminate with alcohol, Quaternary ammonium or 250-ppm bleach.

### 5.0 SAFETY & PRECAUTIONS

5.1 Do not use oxidizing agents such as hydrogen peroxide or per acetic acid.

5.2 Do not use bleach solution for cleaning.

5.3 Avoid spraying liquids into the tester.

5.4 Do not autoclave or flame the entire tester.

5.5 The stainless steel micro perforated sieve can be autoclaved without its cover.

5.6 Do not open the tester head.

### 6.0 REVISION HISTORY

Revision No.	Reason for Revision	Superseded from & date
00	First Issue	-----

### 7.0 REFERENCES

Not applicable.

### 8.0 ABBREVIATIONS

SOP : Standard Operating Procedure

% : Percentage

IPA : Iso Propyle Alcohol

°C : Degree centigrade

ppm : Part per million

L : Liter



# PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

## STANDARD OPERATING PROCEDURE

**Title:** Cleaning, Calibration and Operation of M Air T Air Sampler

<b>SOP No.:</b>		<b>Department:</b>	Microbiology
		<b>Effective Date:</b>	
<b>Revision No.:</b>	00	<b>Revision Date:</b>	
<b>Supersede Revision No.:</b>	Nil	<b>Page No.:</b>	4 of 4

### 9.0 ANNEXURES

Not applicable