

| | · ITCKOBIOLOGI DELAKI.ICWI | | | | | |
|--------|--|------------------------------|--|--|--|--|
| | STANDARD OPERATING PROCE | DURE | | | | |
| Depai | rtment: Microbiology | SOP No.: | | | | |
| Title: | Fitle: Operation, Cleaning and Calibration of Digital Colony Counter Effective Date: | | | | | |
| - | rsedes: Nil | Review Date: | | | | |
| | ssue Date: Page No.: | | | | | |
| 1.0 | OBJECTIVE: | | | | | |
| | To lay down a procedure for operation cleaning and calibration | of Digital Colony Counter in | | | | |
| | Microbiology Laboratory. | | | | | |
| 2.0 | SCOPE: | | | | | |
| | This SOP is applicable to the operation cleaning and calibration of Digital Colony Counter | | | | | |
| | Microbiology laboratory. | | | | | |
| 3.0 | RESPONSIBILITY: | | | | | |
| | Microbiologist-Quality Control | | | | | |
| | Head-Quality Control | | | | | |
| 4.0 | PROCEDURE: | | | | | |
| 4.1 | Operation: | | | | | |
| 4.1.1 | Clean the instrument with dry clean cotton cloth with 70% v/v IF | PA. | | | | |
| 4.1.2 | Switch 'ON' the main power supply. | | | | | |
| 4.1.3 | Switch 'ON' the instrument. | | | | | |
| 4.1.4 | Focus the magnifying lens. | | | | | |
| 4.1.5 | Connect plug of the Auto Marker pen to the probe socket provide | ed on | | | | |
| | | | | | | |

Instrument.

- 4.1.6 Switch 'ON' illumination.
- 4.1.7 Press the RESET button. The display will show 0000.
- 4.1.8 Press the 'AUDIO' button.
- 4.1.9 Remove the cap of the probe and touch the square of Wolffhuegel glass grid one by one and mark the colonies with the help of auto marker pen.
- 4.1.10 The marking ensures counting of colonies and audio beep indicates that the counts have been made.
- 4.1.11 Record the total number of cfu count from display.
- 4.1.12 Switch 'OFF' the illumination.
- 4.1.13 Switch 'OFF' the instrument.
- 4.1.14 Switch 'OFF' the main power supply.
- 4.1.15 Keep the cap on the probe when not in use.



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4.1.16 In absence of the marking probe or if the marking probe is not working, count manually by marking each colony with the help of marker pen.

4.2 Calibration

- 4.2.1 Insure that Equipment should be clean before use.
- 4.2.2 Operate the colony counter as per 4.1.2 to 4.1.8.
- 4.2.3 Keep the blank Petri plate at inverted position on square of Wolffhuegel glass grid and mark on Petri plate with the help of auto marker pen by 25 times, 50 times and 100 times and Count manually.
- 4.2.4 After manually count compare with display result and record the result as per annexure-I.
- 4.2.3 Observed Result and display result should be same.

Frequency: Half yearly

4.3 Cleaning:

- 4.2.1 Clean the magnifying glass / Wolffhuegel glass and illumination grid with clean cotton cloth.
- 4.2.2 Clean the display counter with clean cotton cloth.
- 4.2.3 Clean Colony counter with a non-shedding duster dipped in filtered 70 % v/v IPA.
- 4.3 Record the cleaning in the "Equipment Cleaning Record" as per Annexure–II.Frequency: Daily

5.0 ANNEXURE (S):

Annexure –I: Calibration Record of Digital Colony Counter Annexure –II: Equipment Cleaning Record.

6.0 **REFERENCE** (S):

SOP: Preparation, Approval, Distribution control, revision and Destruction of Standard operating Procedure (SOP).

7.0 ABBREVIATION (S)/DEFINITION (S):

QC : Quality Control QCM : Quality Control Microbiology v/v : volume by volume

IPA : Iso Propyl Alcohol



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REVISION CARD

| S.N | REVISION No. | REVISION DATE | DETAILS OF REVISION | REASON (S) FOR REVISION | REFERENCE CHANGE CONTROL No. |
|-----|--------------|------------------|------------------------|----------------------------|---------------------------------|
| 1. | 00 | | | New SOP | |



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Annexure I

CALIBRATION RECORD OF DIGITAL COLONY COUNTER

| Area | Microbiology Section | Department | Quality control |
|----------------|-------------------------|---------------------|-----------------|
| Equipment Name | Colony Counter | Equipment No. | |
| Month/Year | | Date of calibration | |

| S.No. | COUNT | RESU MANNUALY | CALIBRATED BY | CHECKED BY |
|-------|-------|------------------|------------------|------------|
| 1. | 25 | | | |
| 2. | 50 | | | |
| 3. | 100 | | | |



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Annexure II EQUIPMENT CLEANING RECORD

| DATE OF CLEANING | DISINFECTANT USED | CLEANED BY | CHECKED BY | REMARKS |
|---------------------|-------------------|------------|------------|---------|
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