



# PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

## STANDARD OPERATING PROCEDURE

**Department:** Microbiology

**SOP No.:**

**Title:** Preparation of Disinfectant Solution

**Effective Date:**

**Supersedes:** Nil

**Review Date:**

**Issue Date:**

**Page No.:**

### 1.0 PURPOSE

To lay down the procedure for preparation of disinfectant solutions.

### 2.0 SCOPE

This Standard Operating Procedure is applicable at Quality Control department of manufacturing facility.

### 3.0 RESPONSIBILITY

#### 3.1 Microbiologist / Executive - Quality control.

3.1.1 Responsible for the preparation of procedure of disinfectant solutions.

### 4.0 ACCOUNTABILITY

4.1 **Head – Quality Control/Designee** -Ensure proper control and compliance of the SOP.

### 5.0 DEFINITIONS

5.1 NA

### 6.0 PROCEDURE

- 6.1 2.5 % v/v Sokrena: Measure 25 ml of Sokrena solution in a clean dry measuring cylinder or suitable measuring device and add to a clean vessel. Add 975 ml of purified water / distilled water and mix in a suitable container for disinfection of Pipettes/Petri plates or Spraying, Cleaning of Floors and Surface sanitization.
- 6.2 2.0 % v/v Bacillocid: Measure 20 ml of Bacillocid solution in a clean dry measuring cylinder or suitable measuring device and add to a clean vessel. Add 980 ml of purified water / distilled water and mix in a suitable container for disinfection of Pipettes/Petri plates or Spraying, Cleaning of Floors and Surface sanitization.
- 6.3 5.0 % v/v Combaton: Measure 50 ml of Combaton solution in a clean dry measuring cylinder or suitable measuring device and add to a clean vessel. Add 950 ml of purified water / distilled water and mix in a suitable container for disinfection of Pipettes/Petri plates or Spraying, Cleaning of Floors and Surface sanitization.
- 6.4 5.0 % v/v Virosil: Measure 50 ml of Virosil solution in a clean dry measuring cylinder or suitable measuring device and add to a clean vessel. Add 950 ml of purified water / distilled water and mix in a suitable container for disinfection of Pipettes/Petri plates or Spraying, Cleaning of Floors and Surface sanitization.



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- 6.5** 20 % v/v Virosil: Measure 200 ml of Virosil solution in a clean dry measuring cylinder or suitable measuring device and add to a clean vessel. Add 800 ml of purified water / distilled water and mix in a suitable container for fogging.
- 6.6** 70 % v/v Isopropyl Alcohol: Measure 700 ml of IPA in a clean measuring cylinder or suitable measuring device and add to a clean vessel. Add 300 ml of purified water / distilled water. Filter the solution through 0.2 /0.45  $\mu$  filter.
- 6.7** 0.1 % w/v Sodium Lauryl Sulphate Solution: Weigh 1.0 g of Sodium Lauryl Sulphate and transfer in a clean measuring cylinder or suitable measuring device and add 1000 ml of purified water / distilled water and mix in plastic tub.
- 6.8** All prepared disinfectant solution shall have unique Batch No. in following manner:  
DSYYXXXX  
Where, DS - Disinfectant  
YY – Last two digits of calendar year.  
XXXX- The serial number.  
E.g. DS140001, DS140002 etc.  
First two digit show Year and next four digits show Serial No. starting from 001
- 6.9** After preparation of the disinfectant label on the container as per Annexure-II
- 6.10** Use disinfectants as per the following recommendations.

Disinfectant	Concentration (% v/v)	Category	Recommended Uses
Sokrena	2.5	Sporicidal Agent, Fungicidal	Spraying, Cleaning of Floors and Surface sanitization
Bacillocid	2.0	Bactericide, sporicidal	Spraying, Cleaning of Floors and Surface sanitization
Combaton	5	Bactericide, sporicidal	Fogging/Surface/ Pipettes
Virosil	5	Sporicidal	Surface/ Pipettes
Virosil	20	Sporicidal	Fogging
Sterillium	Undiluted	Bactericide, sporicidal	Hand sanitizer
IPA	70 %	Bactericide, sporicidal	Surface sanitization/ hand sanitizer



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**6.11** Use the disinfectants alternately for the floor disinfection by changing weekly.

**6.12** The record of disinfectant preparation shall be maintained as per Annexure-1.

**6.13** Frequency: Daily, as and when required

### 7.0 ANNEXURES

**7.1** Annexure-I : Disinfectant Preparation Record

**7.2** Annexure-II : Disinfectant Details

### 8.0 ABBREVIATIONS

**8.1** **SOP** : Standard Operating Procedure

**8.2** **QC** : Quality Control

**8.3** **No.** : Number

**8.4** **NA** : Not Applicable

**8.5** **CC** : Change Control

**8.6** **HOD** : Head of Department

**8.7** **v/v** : Volume by Volume

**8.8** **IPA** : Isopropyl alcohol

**8.9** **%** : Percentage

### 9.0 REFERENCE

**9.1** Nil

### 10.0 REVISION HISTORY

Revision No.	Effective date	Change Control Ref. No.	Description of change(s)





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### ANNEXURE II

#### DISINFECTANT DETAIL

Quality Control Department		
<b>Disinfectant Details</b>		
Disinfectant Name		
Batch No		
Prepared on		
Use before		
Prepared by		
Check by		