



# PHARMA DEVILS

## ENGINEERING DEPARTMENT

### STANDARD OPERATING PROCEDURE

<b>Department:</b> Engineering	<b>SOP No.:</b>
<b>Title:</b> Checking of Residual Hydrogen Peroxide with Residual Strips	<b>Effective Date:</b>
<b>Supersedes:</b> Nil	<b>Review Date:</b>
<b>Issue Date:</b>	<b>Page No.:</b>

#### 1.0 REVISION HISTORY

Rev. No.	Details of changes	Reason for change
00	NIL	NEW SOP

#### 2.0 OBJECTIVE

The purpose of this SOP is:

- 2.1** The Objective of this SOP is to describe the procedure for checking of residual hydrogen peroxide After sanitization of different systems.

#### 3.0 SCOPE

- 3.1** This SOP is applicable for the procedure for checking of residual hydrogen peroxide After sanitization of different systems at.....

#### 4.0 RESPONSIBILITY:

- 4.1** The Maintenance Operator shall be responsible:
- 4.1.1** Responsible for checking of residual hydrogen peroxide after sanitization of different systems.
- 4.2** The Maintenance Engineer shall be responsible:
- 4.2.1** Responsible for assurance of proper testing of residual hydrogen peroxides.
  - 4.2.2** Responsible to take necessary actions, if any deviation.

#### 5.0 ACCOUNTABILITY

Head –Engineering Services



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### 6.0 PROCEDURE:

#### 6.1 TEST PROCEDURE:

- 6.1.1 After sanitation of the system, collect a sample of the rinse solution.
- 6.1.2 Remove a test strip from the container and immediately replace the lid.
- 6.1.3 Dip the test strip into the solution to be tested for one second, such that the reaction zone is properly wetted.
- 6.1.4 Remove the test strip, gently shake off excess liquid, and compare the reaction zone with the color scale between 5 and 10 seconds after exposure.
- 6.1.5 If test strip indicates dark blue to brown or green to brown, the concentration is too high for the color scale.

#### 6.2 STORAGE AND HANDLING OF RESIDUAL HYDROGEN PEROXIDE TEST STRIP:

- 6.2.1 Containers that have not been opened must be stored in a refrigerator (5-15<sup>0</sup>C).
- 6.2.2 When a container has been opened do not put it back into the refrigerator.
- 6.2.3 Store containers that have been opened in cool and dry place without refrigerating.
- 6.2.4 Failure to store test strips properly will result in inaccurate readings.
- 6.2.5 To check the color reaction, strips should be tested against a known 3-ppm concentration of hydrogen peroxide (0.1 ml of 3% hydrogen peroxide in 1000 ml of purified water). If the result is not greater than 1 ppm and less than 10 ppm per the color chart, the strips must be discarded. Such test to be carried out once in six month for one container.

### 7.0 ANNEXURES:

Nil

### 8.0 REFERENCES (S)

Nil



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### 9.0 GLOSSARY

SOP : Standard Operating procedure

No : Number

PPM : Parts Per Million.

% : Percentage.