



PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

STANDARD OPERATING PROCEDURE

Department: Microbiology	SOP No.:
Title: Operation of Anaerobic Jar	Effective Date:
Supersedes: Nil	Review Date:
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PURPOSE:

The purpose of this SOP is to lay down a procedure for the Operation of anaerobic jar [Make- Hi media, Model- Mark-II].

SCOPE:

This SOP is applicable to the anaerobic jar used in Microbiology laboratory located at

RESPONSIBILITY:

Officer/Executive - Quality Control.

ACCOUNTABILITY:

Head –QC department.

PROCEDURE:

1.0 About the anaerobic jar

- 1.1 The anaerobic system consists of transparent unbreakable polycarbonate jar of 3.5 litres capacity.
- 1.2 A dual purpose O₂ absorbing and CO₂ generating pack is to be placed inside the jar for obtaining anaerobic condition.
- 1.3 Anaerobic indicator tablet will detect the anaerobic condition inside the jar.

2.0 Applications of the anaerobic jar.

- 2.1 For the culturing of anaerobic organisms that shall be used in the Microbiology laboratory.
- 2.2 For the enumeration of anaerobic organisms during the quantification assay.

3.0 Operation of the anaerobic jar.

- 3.1 **Directions for use with the gas generating kit using the gas packs.**
 - 3.1.1 Place the Petri dishes /tubes in the SS carrier.



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- 3.1.2 Cut open Hi media's anaerobic indicator tablet sachet and remove one tablet pack.
- 3.1.3 Do not take out the tablet from the transparent cover.
- 3.1.4 On removal, the original pink colour may change to purplish blue because of absorption of oxygen.
Under anaerobic conditions this colour will change to pink.
- 3.1.5 Insert the pack into the left or right side of the smaller clip the plate carrier or tube carrier immediately.
- 3.1.6 Cut the top of the anaerogas pack as indicated by the cut mark, remove the sachet and place in the free side of the smaller clip on the plate carrier or tube carrier immediately.
- 3.1.7 Lower the plate/tube carrier into the polycarbonate base.
- 3.1.8 Place the "O" ring in the groove and place the lid on the base.
- 3.1.9 Apply the beam clamp.
- 3.1.10 Screw down the knurled wheel until tight.
- 3.1.11 Incubate the anaerobic jar according to the culture temperature requirements.
- 3.1.12 After the incubation period, discard the indicator tablet and the gas pack.

4.0 Disinfection & storage of the anaerobic jar

- 4.1 The anaerobic jar shall be cleaned by swabbing with 0.2 μ filtered 70% IPA.
- 4.2 The jars shall be best stored open with the lid inverted when not in use.

ANNEXURE(S):

NIL.

REFERENCES:

NIL.