



PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

STANDARD OPERATING PROCEDURE

Title: Heat Penetration Study

SOP No.:		Department:	Microbiology
		Effective Date:	
Revision No.:	00	Revision Date:	
Supersede Revision No.:	Nil	Page No.:	1 of 2

1.0 OBJECTIVE

To study of steam penetration evenly in double door Autoclave with use of Bowie-dick type test kit.

2.0 SCOPE

This procedure is applicable to study even and rapid steam penetration in Double door Autoclave.

3.0 RESPONSIBILITY

3.1 Doing : Technical Assistant/Executive

3.2 Checking : Executive/Manager

4.0 ACCOUNTABILITY

4.1 Head of the Department

4.2 FREQUENCY

4.3 Weekly

5.0 PROCEDURE

5.1 Keep the Bowie-Dick type test pack in the lower shelf of autoclave near drain on SS stand.
Set the Bowie-Dick cycle for 8 min.

5.2 Run the cycle as per SOP for 8 min.

5.3 After Completion on cycle remove the test pack from chamber, remove the cover and paper sheets
Around Test paper.

5.4 Observe the Bowie-Dick test paper for even colour change of the indicator which is distributed
on test paper.

5.5 Record the results in Annexure – I and attach this test paper with annexure.

5.6 The test should be considered satisfactory if there is a uniform colour change through out the indicator.

5.7 If there is a failure check the pervious load and previous results.

5.8 Inform to engineering department for the rectification and corrective action.

6.0 ABBREVIATION

NIL



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ANNEXURE-I

RESULTS OF BOWIE-DICK TYPE TEST KIT

(Study of steam penetration study in Double door Autoclave)

Date of Sterilization	:		Ster-Hold Time	:	8 minutes
Sterilization Cycle No.	:		Autoclave ID No.	:	

BOWIE-DICK TYPE TEST KIT

Manufacturer	:		Mfg date	:	
Lot Number	:		Exp. date	:	

Observation :

Conclusion: Steam penetration is **SATISFACTORY / NOT SATISFACTORY**

Acceptance Criteria: The colour of Bowie-dick test paper should be changed from yellow to blue evenly

Analyst

Date of report

Checked By