

PHARMA DEVILS

QUALITY CONTROL DEPARTMENT

STANDARD OPERATING PROCEDURE		
Department: Quality Control SOP No.:		
Title: Operation and Calibration of Micrometer Effective Date:		
Supersedes: Nil	Review Date:	
Issue Date:	Page No.:	

1.0 OBJECTIVE:

To lay down a procedure for operation and calibration of micrometer.

2.0 SCOPE:

This SOP is applicable to the micrometer in Quality Control Department.

3.0 RESPONSIBILITY:

Officer, Executive – Quality Control Department

Head – Quality Control Department

4.0 **DEFINATION(S)**:

NA

5.0 PROCEDURE:

Make: Mitutoyo, Model: MDC- 25SB

5.1 Operation:

- 5.1.1 Ensure that instrument is clean and free from dust.
- 5.1.2 Check the calibration status of the instrument.
- 5.1.3 Switch on the instrument display screen with help of button named "Origin".
- 5.1.4 Ensure that '0' on the main scale and circular scale exactly coincides with each other & instrument display screen show zero reading.
- 5.1.5 Set the sample between the micrometer jaws by moving the knob attached to the side arm.
- 5.1.6 Slowly turn the thumb screw fillted at the end of vernier scale till the end point.
- 5.1.7 Do not move the jaws by rotating vernier scale, use only the thumb screw.
- 5.1.8 Observed the reading on the digital screen.
- 5.1.9 Note down the reading.

5.2 Calibration:



PHARMA DEVILS

QUALITY CONTROL DEPARTMENT

STANDARD OPERATING PROCEDURE			
Department: Quality Control	SOP No.:		
Title: Operation and Calibration of Micrometer	Effective Date:		
Supersedes: Nil	Review Date:		
Issue Date:	Page No.:		

- 5.2.1 Micrometer shall be calibrated by authorized or trained Engg. Personnel or by approved external party.
- 5.2.2 If the readings are exceeding the acceptable limit, put an "OUT OF CALIBRATION" tag, and proceed as per SOP.
- 5.2.3 Calibrate the instrument once in a year.
- 5.3 **Precautions:**
- 5.3.1 Use the instrument carefully not to damage the jaws.
- 5.3.2 After use keep the instrument in the box provided.
- 5.3.3 Change the battery when the display is not readable.

6.0 **ABBREVIATION(S):**

QCD – Quality Control Department

SOP – Standard Operating Procedure

NA – Not Applicable

7.0 REFERENCE(S):

NA

8.0 ANNEXURE (S):

---Nil---

9.0 REVISION CARD:

S.No.	REVISION No.	REVISION DATE	DETAILS OF REVISION	REASON (S) FOR REVISION