

OUALITY CONTROL DEPARTMENT

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

1.0 OBJECTIVE:

To lay down procedure for Operation, Cleaning and Calibration of UV chamber

2.0 SCOPE:

This SOP is applicable for U.V Cabinet, installed in Quality Control Department.

- **3.0 RESPONSIBILITY -** Execution Executive QC Checking Assistant Manager QC
- 4.0 ACCOUNTABILITY- Manager Quality Control
- **5.0 PROCEDURE:**
- 5.1 CALIBRATION PROCEDURE:

Frequency: Once in 3 months.

For 254nm

- 5.1.1 Operate the instrument as per operational procedure described above.
- 5.1.2 Prepare a 0.04% w/v solution of sodium salicylate in ethanol (95%).
- 5.1.3 Apply 5µl of this solution on Silica gel G TLC plate having a diameter of about 5 mm and examine visually.
- 5.1..4 The lamp should be capable of revealing without doubt a standard spot of sodium salicylate.

For 366 nm

- 5.1.5 Operate the instrument as per operational procedure.
- 5.1.6 Prepare a 0.2 % w/v solution of sodium salicylate in ethanol (95%).
- 5.1.7 Apply 5µl of this solution on Silica gel G TLC plate with a diameter of about 5mm and examine visually.
- 5.1.8 The lamp should be capable of revealing without doubt a standard spot of sodium salicylate.
- 5.1.9 Record the observed calibration data as per Annexure-I.
- **5.2 OPERATING PROCEDURE:**
- 5.2.1 Check the calibration status of the instrument.
- 5.2.2 Clean the instrument with dry cotton cloth.
- 5.2.3 Switch 'ON' the mains.



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- 5.2.4 Keep the TLC plate inside the UV cabinet.
- 5.2.5 Switch 'ON' either 254 nm or 366 nm wavelength lamp as per the requirement.
- 5.2.6 After observing the plate, mark the spots, if required.
- 5.2.7 Switch 'OFF' the instrument.
- 5.2.8 Take out the plate and switch 'OFF' the mains.

5.3 CLEANING PROCEDURE:

Frequency: After each use.

- 5.3.1 Switch "OFF" the Mains.
- 5.3.2 Switch "OFF" the Instrument.
- 5.3.3 Open the door of Cabinet.
- 5.3.4 Clean the inner surface of cabinet with dry cotton cloth.
- 5.3.5 Then clean the body with dry cotton cloth.

6.0 SAFETY & PRECAUTIONS:

Not Applicable

7.0 REVISION HISTORY:

Revision No.	Reason for Revision	Superseded from & Date
00	New	

8.0 DISTRIBUTION:

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No.	Date	Dept. issued	Name / Signature of receiver	Issued By Name / Signature	Ву	Sign/ Date	Ву	Sign/ Date



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9.0 REFERENCES:

Not Applicable

10.0 ABBREVIATIONS & ANNEXURES:

SOP : Standard Operating Procedure

No. : Number

Deptt : Department

UV : Ultra-violet

TLC : Thin layer chromatography.

% : Percentage.

w/v : Weight by volume

mm : millimetre

°C : Degree Celsius

% : Percentage

Annexure- I: Calibration Report of UV Cabinet

Annexure- II: Cleaning Record of UV Cabinet



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Department: Quality Control Title: Operation, Cleaning and Calibration of UV Chamber Supersedes: Nil Review Date: Review Date: Page No.: ANNEXURE-I CALIBRATION REPORT OF UV CABINET CALIBRATION DATE LAST CALIBRATION DONE ON NEXT DUE FOR CALIBRATION INSTRUMENT DETAILS INSTRUMENT DETAILS INSTRUMENT NAME INSTRUMENT MAKE INSTRUMENT MAKE INSTRUMENT MAKE INSTRUMENT IDENTIFICATION No. OBSERVATIONS I. Check For Short Wavelength (254nm): Wt. of Sodium salicylate taken:————————————————————————————————————	S	ΓANDARD O	PERATING PR	OCEDURE
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PERFORMED BY		CHECKED BY			
NAME	SIGN	DATE	NAME	SIGN	DATE



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ANNEXURE- II CLEANING RECORD OF UV CABINET

NAME OF THE INSTRUMENT: UV CABINET

MAKE : MODEL NO. : IDENTIFICATION NO. :

Date	Cleaned By	Checked By	Remarks