



PHARMA DEVILS

QUALITY 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 5 μ l 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 5 μ l 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.



PHARMA DEVILS

QUALITY 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.:

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



PHARMA DEVILS

QUALITY 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.:

ANNEXURE-I

CALIBRATION REPORT OF UV CABINET

CALIBRATION DATE	LAST CALIBRATION DONE ON	NEXT DUE FOR CALIBRATION
INSTRUMENT DETAILS		
INSTRUMENT NAME	INSTRUMENT MAKE	INSTRUMENT IDENTIFICATION No.

OBSERVATIONS

1. Check For Short Wavelength (254nm):

Wt. of Sodium salicylate taken:- _____ mg → 100ml with ethanol (95%).
(About 0.04 g)

Spotting: Diameter of about 5mm and volume of 5µl and examine visually at 254nm.

Results :

Acceptance Criteria:

The lamp should be capable of revealing without doubt a standard spot of Sodium salicylate.

2. Check For Long Wavelength (366nm):

Wt. of Sodium salicylate taken:- _____ mg → 100ml with ethanol (95%).
(About 0.2 g)

Spotting : Diameter of about 5mm and volume of 5µl and examine visually at 366nm

Results :

Acceptance Criteria:

The lamp should be capable of revealing without doubt a standard spot of Sodium salicylate.

CONCLUSION

INSTRUMENT WORKING SATISFACTORY

INSTRUMENT NOT WORKING SATISFACTORY



PHARMA DEVILS

QUALITY 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.:

PERFORMED BY			CHECKED BY		
NAME	SIGN	DATE	NAME	SIGN	DATE

