

 <p>BLDEA'S Shri Sanganabasava Mahaswamiji College of Pharmacy & Research Centre Vijayapur 586103</p>	DEPT. – PHARMACEUTICAL QUALITY ASSURANCE	SOP NO.: BCP/CIL/SOP/008
	INSTRUMENT – PHOTO FLOUROMETER MAKER – SYSTRONICS MODEL - 152 PROCURED DATE – 29-01-2005	PAGE NO.: 1-2
	SUBJECT: SOP FOR FLOUROMETER	EFFECTIVE DATE: 01/01/2022
		REVIEW PERIOD: 31/12/2022

- ✓ **PURPOSE:** The purpose of this standard operating procedure (SOP) is to describe the operation and calibration of the flourometer.
- ✓ **OBJECTIVES:** To lay down the procedure for operation and calibration of the Flourometer for better and error free use.
- ✓ **SCOPE:** This SOP is applicable to the operation and calibration of flourometer at the quality control department.
- ✓ **PRECAUTION:**
 - Do not use near flammable materials.
 - Always inspect the VersaFluor Fluorometer for damaged components before use.
 - Always connect the system to the correct AC power source.
 - Always connect the correct instrument (printer or computer only) via the serial port connector.
 - Do not pour liquid into the sample chamber. Thorough clean-up is needed after each spill.
 - Do not place objects on the VersaFluor Fluorometer.
 - Do not look directly at the lamp when on.

✓ **STANDARD OPERATING PROCEDURE**

BEFORE YOU START :

- ✓ Check the wavelength accuracy of the emission channel.
- ✓ Make sure that the instruments detection system is operated within its linear range to avoid spectral distortions due to detectors saturation.

SAMPLE PREPARATION – Dissolve each sample in 10ml suitable solvent.

MEASUREMENT CONDITIONS

- Measurement conditions are given in scheme1/scheme1.
- Set thermostate to 25°C ($\pm 2^\circ\text{C}$).
- Use properly closed fluorescence cuvettes to minimize water uptake and solvent evaporation,preferentially the same cuvette for all measurements.
- Glass and polymers cells: wavelength region for use is limited due to material absorption.
- All spectra need to be measured under identical conditions:spectral bandpass of the emission monochromators,PMT voltage,scan speed,step size.
- Only the parameter excitation wavelength,spectral bandpass of the excitation monochromators and scanned spectral emixxon range can be varied amongst the kit dyes. These parameters have to be kept constant for each dye-blank-pair.
- Identical wavelength grids (slits) are required for the calculation of the global emission correction curve.
- To check the suitability of the chosen instrument settings,record a test spectrum in order to avoid saturation of the detection system. For this purpose,use of BAM-F003 is recommended.

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