

 <p>BLDEA'S Shri Sanganabasava Mahaswamiji College of Pharmacy & Research Centre Vijayapur 586103</p>	DEPT.: PHARMACEUTICAL QUALITY ASSURANCE INSTRUMENT - FLAME PHOTOMETER MAKER - SYSTRONICS MODEL - 130 PROCURED DATE – 23-02-2006	SOP NO.: BCP/CLI/SOP/005
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	SUBJECT: SOP FOR FLAME PHOTOMETER	EFFECTIVE DATE: 01/01/2022
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- ✓ **PURPOSE:** The purpose of this standard operating procedure (SOP) is to describe the operation and calibration of the flame photometer.
- ✓ **OBJECTIVES:** To lay down the procedure for operation and calibration of the Flame photometer for better and error free use.
- ✓ **SCOPE:** This SOP is applicable to the operation and calibration of flame photometer at the quality control department.
- ✓ **SAFTY PRECAUTION:** flame photometer uses flammable gases which can cause explosions if used improperly.
- ✓ **STANDARD OPERATING PROCEDURE :**
 1. Switch the instruments on and off under supervision.
Note: check the flame during work if it goes out, close the gas valve immediately. Let the instrument warm up for 5-10 minutes.
 2. Feed distilled water to the instrument.
 3. Select the element Na by turning the selector” Element”.
 4. Turn the outer knob ”Measurement” into position”100”.Pull the “Compensation I” knob slightly out and adjust readout to 0. Press the “Compensation I” knob back, reading 0 reading with ”Compensation II” if necessary.
 5. Aspirate the most concentrated standard solution (solution number 6) and adjust readout to approximately 350 (on uppermost scale) using inner “measurement” knob.
 6. Aspirate distilled water-the instrument should read 0.

7. Aspirate standard solutions no.1,2,3, test solution and then standards 4,5,6. Record the results.
8. Repeat 3-7 for solutions of potassium.
9. Aspirate distilled water for at least 5 minutes to clean the system.

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