

 <p>BLDEA'S Shri Sanganabasava Mahaswamiji College of Pharmacy & Research Centre Vijayapur 586103</p>	DEPT: PHARMACEUTICAL CHEMISTRY	SOP NO.: BCP/PC/SOP/012
	INSTRUMENT: FLAME PHOTOMETER	PAGE NO.: 01-02
	MAKE: Systronics MODEL: 649 PROCURED ON: 23-02-2006	EFFECTIVE DATE: 01/01/2022
	SUBJECT: SOP FOR FLAME PHOTOMETER	REVIEW PERIOD: 31/12/2022

Objective:

The following document describes the standard operating procedure for Flame photometer.

Scope:

Flame used for detection of elements present in sample.

Procedure:

1. Set the fuel [ON/OFF] control to the off position,
2. Depress the power switch on the 400. The **RED [POWER] INDICATOR** will be illuminated and the compressor will start.
3. Turn on the gas supply at the bench tap.
4. **WARNING!** Avoid the area above the chimney as the fuel rich mixture required for ignition, may cause the flame to be high when first ignited.
5. Open the inspection flap on the front of the chimney (Always view the flame through the inspection flap never look down the chimney).
6. Set the fuel [on/off] control to the on position and depress the ignition switch
7. If the flame does not light set the fuel (on off] control to the off position and seek assistance,
8. Set the filter selector to the required position and close the inspection hatch.
9. Insert the nebulizer tube in a beaker containing distilled water and allow 15 mins for the instrument to stabilise.
10. Adjust the [blank] control so that the meter reads zero, while aspirating distilled water.

11. Aspirate a standard solution that has a slightly higher concentration than the unknown 11.
Adjust the (coarse) and [fine sensitivity controls for the required meter reading.
12. Recheck (blank) adjustment and sensitivity setting until both are correct. samples.
13. Aspirate a series of standard solutions to cover the expected range of the unknown samples.
14. Aspirate the unknown samples

SHUTDOWN PROCEDURE:

1. Aspirate with distilled water for a few minutes
2. Set fuel [ON/OFF] control to the **OFF** position
3. Switch power **OFF**.
4. Turn off the gas supply at the bench tap.

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