**EXPERIMENT -2**

Determination of particle size and particle size distribution using microscopic method.

**AIM:** To determine particle size and particle size distribution.

**STANDARD STAGE MICROMETER:**

* Standard stage micrometre is used to calibration of eye piece micrometre. Eye piece micrometre is a glass slide (7.5cm into 2.5cm) which has the scales engraved in the scale usefully 0.1mm is length. 1mm divided into 100 divisions. Thus smallest division least count of the stage micrometre represents 0.01mm or 10µm length.
* In this experiment in the optical combination of 10x eye piece and 45x objective is used.
* The stage micrometre is least on the stage of the [microscope](https://pharmacyinfoline.com/study-of-microscope/). The objective is position to the centre of objective.
* Initially disc focus low power the scale of stage micro meter observed (100 divisions)
* Now the objective is focus to high power (45x)
* Two points were selected one point on the left side where divisions both scales coincide and another point on the right side.
* The number of small division that is eye piece were counted and big division stage micrometre were counted and recorded

1 eye piece = y/x × 0.01mm 1 eye piece = y/x × 10 µm

**REPORT:**

From the graph it was found the particles were distributed uniformly from size range of 0-400µm.

According to BPC.

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