**Assay of indomethacin capsules**

**Procedure:**

* To a quantity of the mixed contents of 20 capsules equivalent to 50 mg of indomethacin , add 10 ml of water in vol. flask 100 ml .
* Stand for 10 minutes , swirling occasionally .
* Add 75 ml of methanol shake well and add sufficient methanol to produce 100 ml and filter .
* To 5 ml of the filtrate , add sufficient of a mixture of equal volumes of methanol and phosphate buffer (PH 7.2) to produce 100 ml in a vol . flask .
* Measure the absorbance of the resulting solution at ʎ max = 318 nm .
* Calculate the content of indomethacin , taking 0.193 as the value of E 1% .

**Limit :**

* 90-110 % of the labeled amount .

**Calculation :**

* Weight of 20 capsules = **W1**
* Weight of empty shells = **W2**
* Weight of contents = W1 – W2 = **W3**
* Amount of drug = **X**

20 capsule \* 25 mg each 🡪 W3

50 mg 🡪 X

* **Abs**. =
* **Concentration** = = mg %
* **Theoretical amount of Indomethacin** :

50 🡪 100 ml

X 🡪 5 ml

X = 2.5 mg % because we completed the volume to 100 .

* **% of drug** = =