

Name of the Experiment: Identification test for cotton

SKETCH



cotton fibre



Raw cotton

Material, Tools & Equipment Required (if any)

| Sl.No. | Name | Specification | Qty. |
|--------|------|---------------|------|
| | | | |

PROCEDURE

THEORY =
Biological source

Cotton consists of the epidermal trichomes or hair of the seeds of cultivated species of the Gossypium herbaceum belongs to family malvaceae.

USES

Cotton is used as a filtering medium and in surgical dressings. It is also used as an insulating material.

Observations, Calculations, Graph

CHEMICAL TEST:-

- 1) Soak cotton fibres in iodine water and dry. Add few ml of 80 per cent sulphuric acid - trichomes assume purplish blue to bluish green colour.
- 2) Cotton is insoluble in dilute sodium hydroxide solution.
- 3) It is insoluble in hydrochloric acid.
- 4) It is soluble in 66% of sulphuric acid.
- 5) Raw cotton fibres when treated with ammoniacal copper oxide solution.

Safety Precaution:

Application & Inference:

CONCLUSION =

From the above observation, we conclude that the supplied sample is 'cotton'.