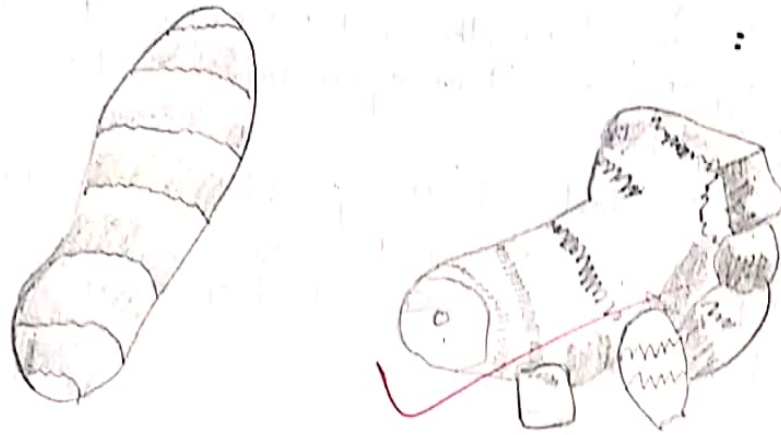


Name of the Experiment: To study about the morphological and chemical characteristics of crude drug (turmeric)

SKETCH



(RAW TURMERIC)

Material, Tools & Equipment Required (if any)

Sl.No.	Name	Specification	Qty.
	Supplied crude drug - Turmeric Boric acid mortar and pestle, beaker, Sulphuric acid, filter paper, test tube Sodium hydroxide		

PROCEDURE

THEORY =

-Turmeric is the fresh rhizomes of 'Curcuma longa' belongs to family zingiberaceae.

CHEMICAL CONSTITUENT =

-It contains 5% volatile oil, resin, starch and curcuminoids. The chief component of curcuminoids is known as curcumin. It also contains turmerone, zingiberene.

USES =

-It is used as antiseptic, antimicrobial, anti-inflammatory colouring agent.

Observations, Calculations, Graph

MORPHOLOGICAL CHARACTER:-

OBSERVATION:-

colour:- externally yellowish brown and internally yellowish orange

odour:- Aromatic

Taste:- Slightly bitter

Size:- 2-5 cm in length and 1-2 cm in thickness

shape:- long turmeric are cylindrical and round turmeric are oval.

CHEMICAL TEST:-

- (i) The drug is treated with H_2SO_4 , which gives crimson red colour.
- (ii) The aqueous solution of turmeric on treatment with basic acid reddish colour and on addition with alkali it changes to greenish-blue.

Safety Precaution:

Application & Inference:

CONCLUSION:-

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

ASSESSMENT

MARKING PROCEDURE		Full Mark	Marks Obtained	Remarks
Accuracy & Process	Sketch	10		
	Sequence of Operation	10		
	Use of Tools & Equipment	10		
	Safety Observation	5		
Report	Observations, Calculations, Graph	25		
Inference		30		
Viva		10		
Total		100		