

(Learning by doing and discovery)

Name of the Experiment: To study about the morphological and chemical characteristics of supplied crude drug black catechu

SKETCH

Material, Tools & Equipment Required (if any)

Sl.No.	Name	Specification	Qty.
	Black extract, Ferric chloride, HCl, vanillin, CaOH sol ⁿ		

PROCEDURE

Biological source -!

It is obtained from the dried aqueous extract of heart wood of Acacia catechu belongs to family leguminaceae.

chemical constituent -!

It contains acacatechin - 10%. Acacatechin is also known as acacia catechin. Acacatechin undergoes oxidation to catechutannic acid in presence of water. It also contain and catechal.

uses

used as Astringent externally for bowels, ulcers and skin irritation
- used in cough and diarrhoea. Also used in dyeing and colouring.

Observations, Calculations, Graph

MORPHOLOGICAL CHARACTER -

colour: light brown to black

taste: very astringent

shape: Irregular

Chemical test -

- Black catechin is treated with ferric chloride solⁿ to gives black colour.

- Black catechu gives pink or red colour with vanillin and HCl acid.

- Black catechu when treated with CaOH solⁿ. It gives brown colour.

Safety Precaution:

Application & Inference:

Conclusion

from the above observation, we concluded that the supplied sample is "Black catechu".

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		