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Diploma in Pharmacy 1st Year

Pharmacognosy

Experiment

To perform the morphological study of Ginger.

Aim:

To perform the morphological study of Ginger.

Reference :

Dr. Gupta G.D , Dr. Sharma Shailesh , Kaur Navjit , “Practical Manual of Pharmacognosy” Published by Nirali Prakashan , Pg.No 19 - 21

Synonyms

thizoma zingiberis, Zingibere

Biological Source :

Ginger consists of the dried rhizomes of the Zingiber officinale Roscos belonging to family Zingiberaceae.

Morphological Characters

This form of evaluation involves a series of tests using the sense organs. It refer to evaluation of:

- 1) **General Appearance:** It has sympodial branching and horizontal rhizome appearance.
- 2) **Colour:** It is buff in colour.
- 3) **Shape:** On the upper side, lateral flattening with short flattened oblique. obovate branches or fingers. Each branch is 1 to 3 cm long and has a depression scar on the stem neat its tip

- 4) **Size:** It is 5 to 15 cm in length, 3 to 6 cm in breadth, and 0.5 to 1.5 cm in thickness.
 - 5) **Taste:** It has a pungent taste.
 - 6) **Odour:** Its odour is aromatic
 - 7) **Surface:** The surface is longitudinally striated with protruding fibres on occasion.
 - 8) **Fracture:** Fracture can be fibrous, short and starchy. Fractured surface is a narrow bark, having well-defined endodermis and a broad stele with numerous scattered greyish points (fibro-vascular bundles) and smaller yellowish points.
- Taste:** The taste of the cardamom is sweet and spicy with woody undertones.

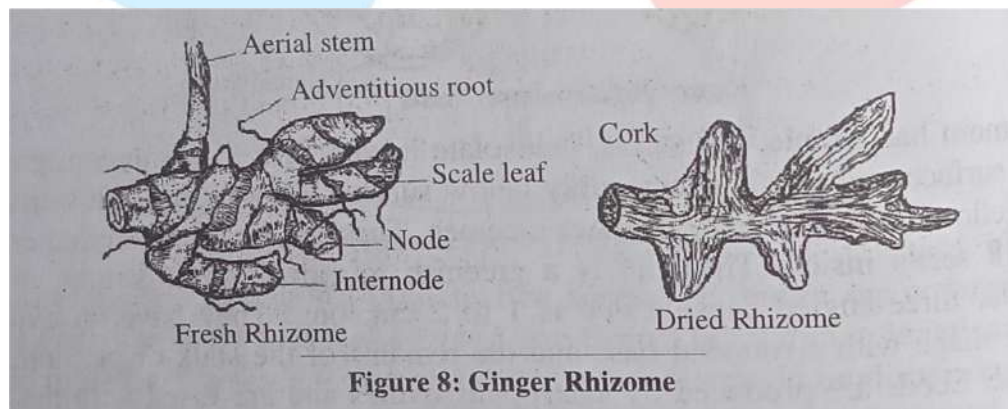


Figure 8: Ginger Rhizome

Result :

The morphological study of Ginger was performed.

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