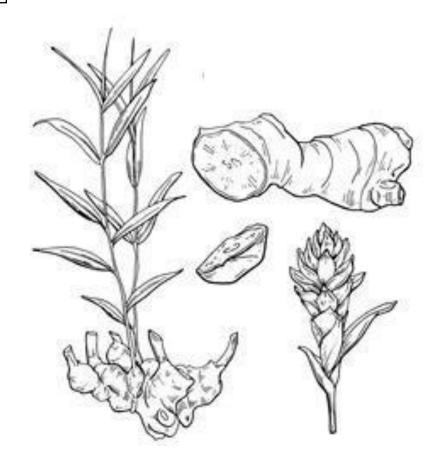
GINGER



Gingerols (n = 0,2,3,4,5,7,9)

Shogaols (n = 4,5,7,9,10)

Zingerone

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MORPHOLOGY OF GINGER

Morphological characteristics (Ginger Rhizome):

Aim: To identify the morphological characters of given organised drug.
Reference:
Requirements:
Synonyms: Adarak, Zingiber
Biological Source: Ginger belongs to oleo gum resin category and is obtained from the rhizomes of Zingiber
officinale Roscoe.
Family: Zingiberaceae

S. No.	Morphological Character	Observation
1	Colour	
2	Odour	
3	Taste	
4	Shape	
5	Size	
6	Extra features	

Chemical constituents:

- > The rhizome of ginger contains volatile oil, fat, starch, moisture, fiber, and inorganic substance.
- > The volatile oil contains monoterpene and sesquiterpene hydrocarbons, oxygenated terpene derivatives, phenyl propanoids and is also responsible for its distinct aroma.
- \triangleright It also contains α-zingiberene, β-sesquiphellandrene, α-curcumene, β-bisabolene, α-farnesene, geranial, and citral.
- The phenolic ketones in ginger, such as Zingerone, gingediols, paradols, shogaols, o-methyl ethers, andhexahydro curcumin, are responsible for its pungency and medicinal effects.

Medicinal Uses:

- > It serves as an aromatic, stimulant, carminative, and flavouring ingredient.
- ➤ Ginger oil is used to make drinks, liqueurs, and mouthwashes.
- ➤ It inhibits parasite diseases.

- > It promotes stomach motility and used for suppression of nausea and gastro-intestinal responses.
- > It works well to manage nausea and vomiting caused by surgeries as well as hyperemesis gravidarum.
- ➤ Ginger also possesses anti-platelet aggregation, analgesic, antipyretic, antitussive, antibacterial, anthelmintic, fungicidal, and antiulcer properties.
- ➤ Limed ginger has been developed by lime-coating in order to enhance its color and quality. It is done mostly for long-term ginger storage.

Report: The given organised drug was identified as.....

Questions Bank

- 1. What is the order of Ginger?
- 2. Write the botanical name of Ginger.
- 3. What are the uses of Ginger?
- 4. Write the name of chemical constituent of Ginger.
- 5. What is the nausea?
- 6. Write a note on morphological characters of Ginger.
- 7. What is Hindi name of nausea?
- 8. Draw the chemical structure of Gingerol.
- 9. What is the antipyretic effect?
- 10. Paste the one marketed preparation of Ginger.