





### Anise

- Origin:
  - -It is the dried fruits of *Pimpinella* anisum Family Apiaceae





### Morphology:

-Shape: Pear shaped, large base and tapered ends

-Size: Small

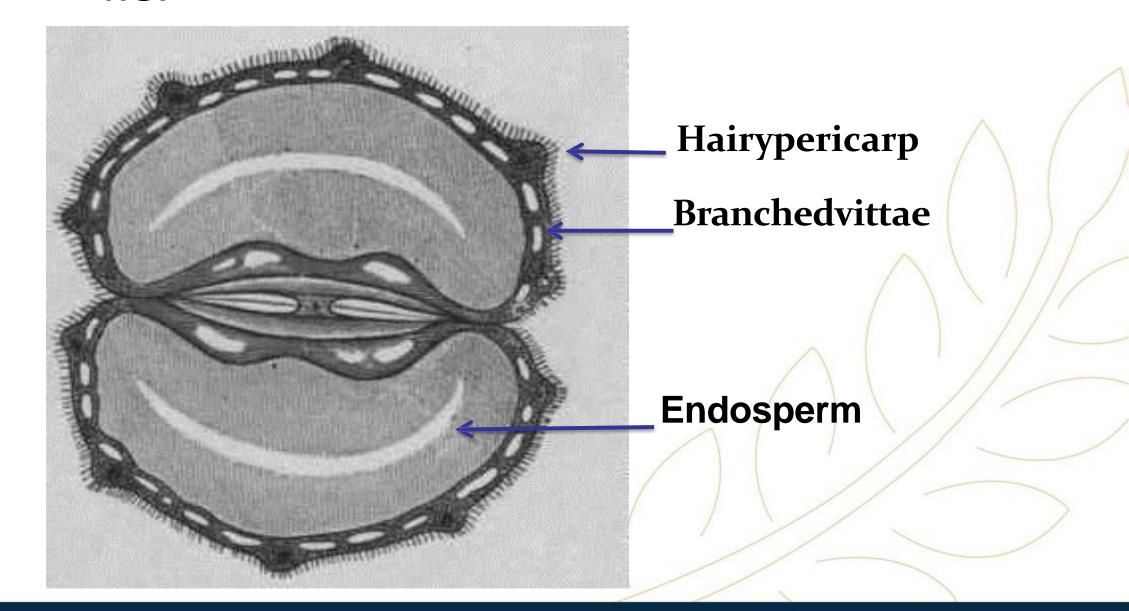
-Colour: Greenish grey

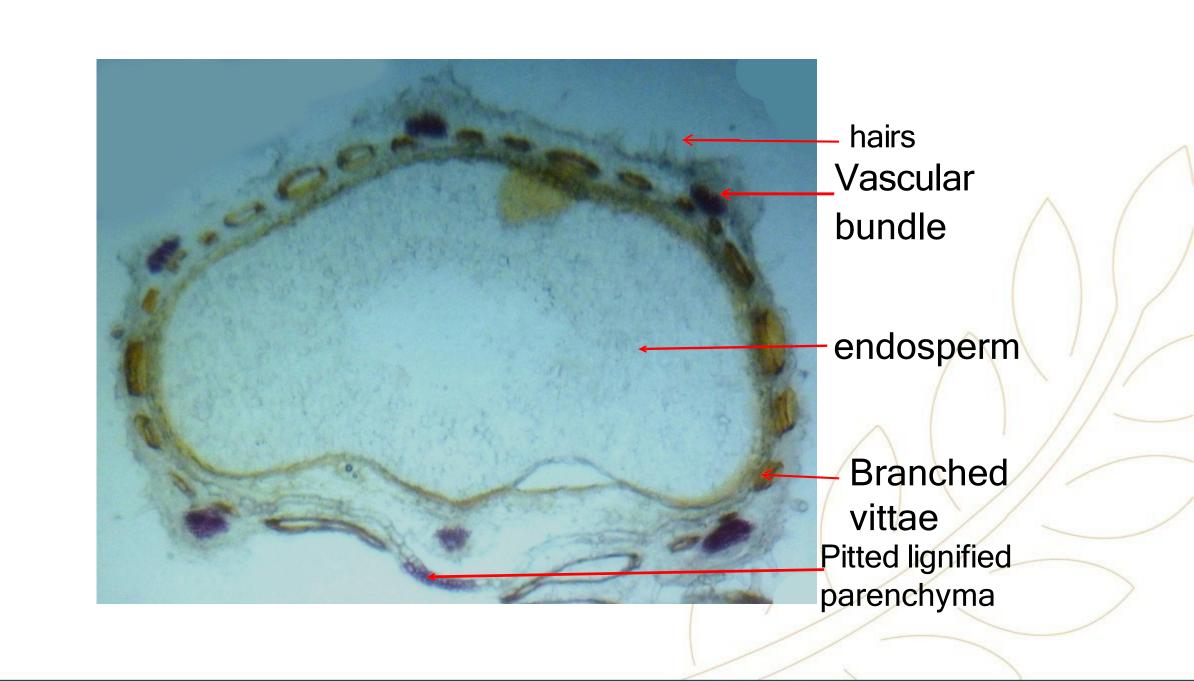
- Odour: Aromatic agreeable

-Surface: Hairy on dorsal side



### • T.S.





### Physical characters:

- Condition: Fine powder
- Color: Yellowish green
- Odour: Aromatic odour
- Taste: Sweet aromatic taste

### Key elements: 1- Epicarp

Slightly wavy wall, striated cuticle, anomocytic stomata.

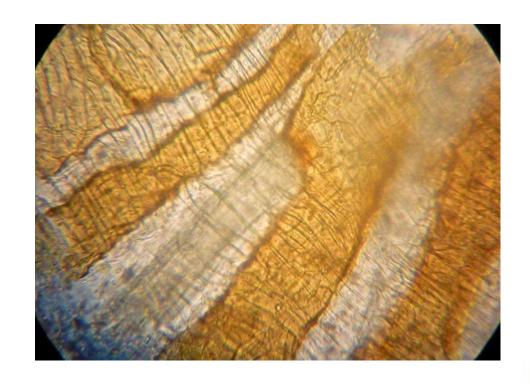


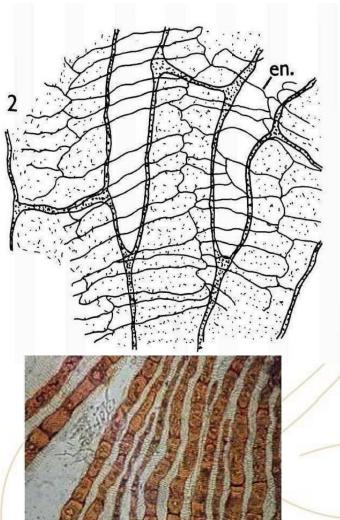
 Unicelluar (occasionally bicellular) non glandular hair with warty cuticle



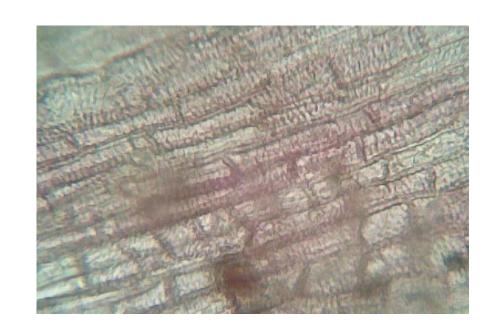


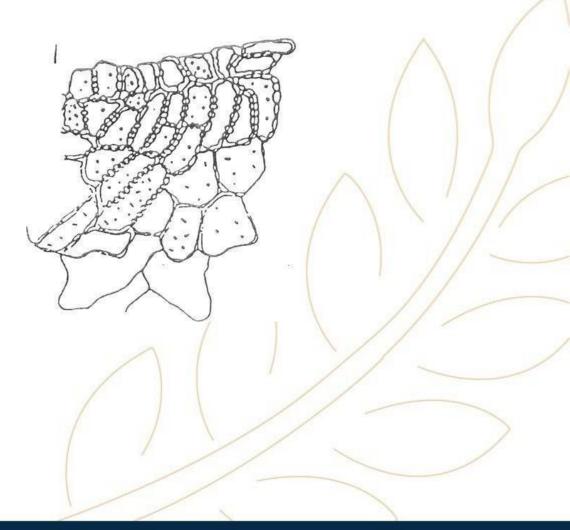
# Branched vittae overlapped by non-parquetory **endocarp**



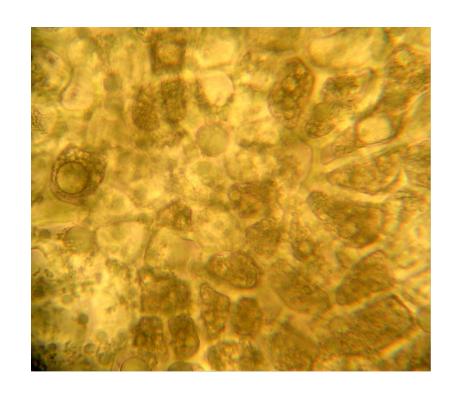


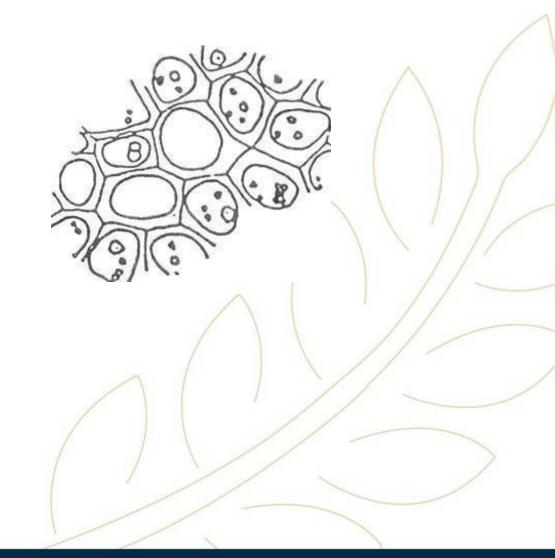
### Lignified pitted parenchyma





### Numerous fragments of endosperm.





### Microscopical Character:

**Mount in KOH: All key elements** 

Mount in phlourogucinol: Vascular bundle, Pitted lignified

parenchyma

Mount in Water: Unicelluar non glandular hair

#### Uses

- 1. Treat respiratory tract infections as cough and bronchitis
- 2. Carminative and Relieving colic in children.
- 3. Lactagogue
- 4. Has a sedative action.
- 5. Oil is also employed in food & drink industry as flavoring agent

## Ammi visnaga

### **Origin:**

It is the dried ripe fruit of Ammi visnaga family Apiaceae



### Morphology:

Shape: Small ovoid

• Colour: Brownish green with violet tinge

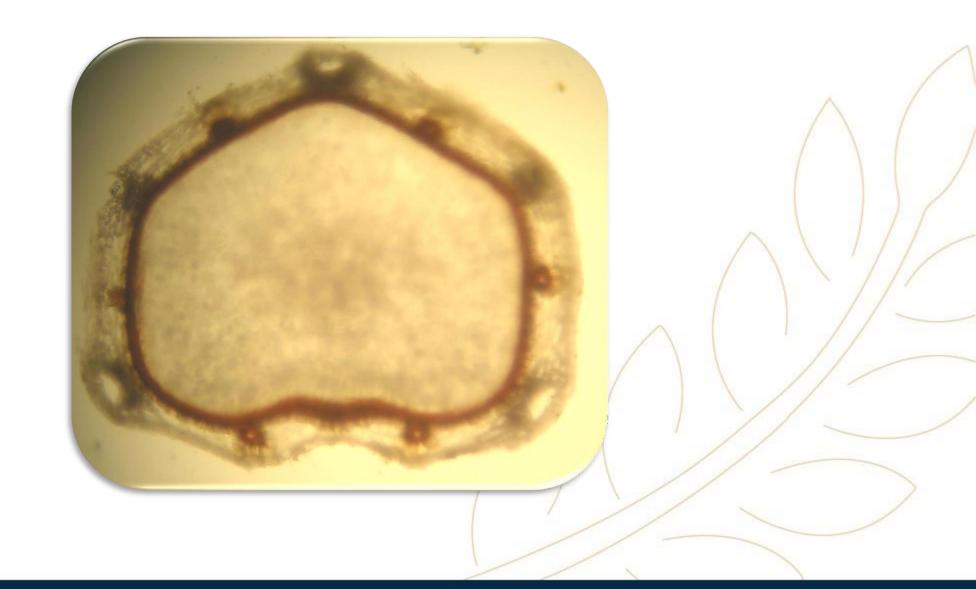
• Odour: Slightly aromatic

• Taste: Bitter

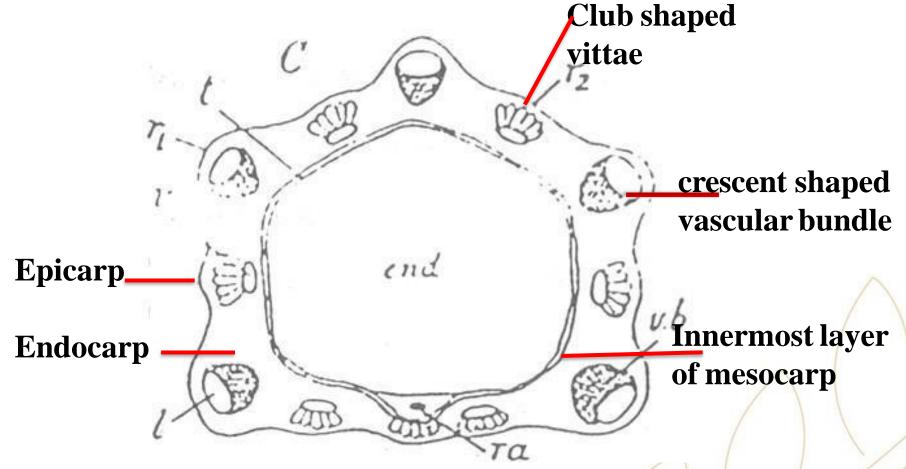
• Surface: Primary ridge Secondary ridge



## **T.S.**



### T.S.

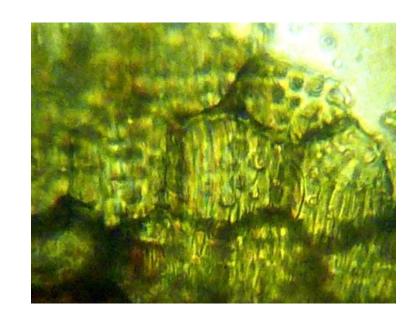


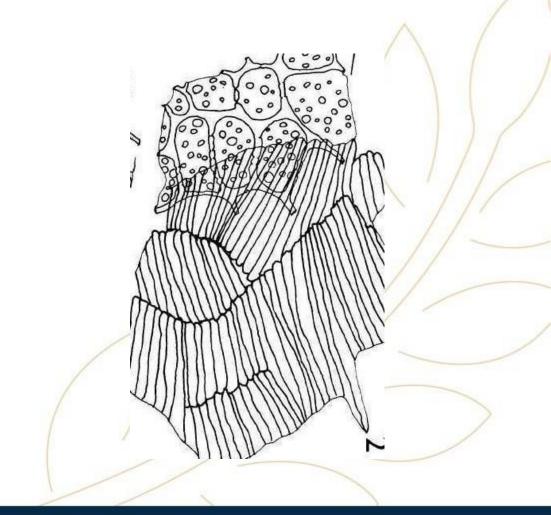
T. S. of Ammi visnaga mericarp (diagram)

- Condition: Fine powder
- Colour: Brownish green
- Odour: Slightly aromatic
- Taste: Bitter

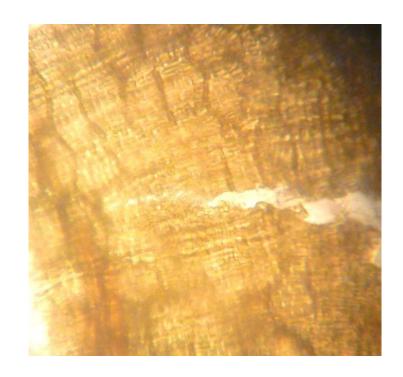


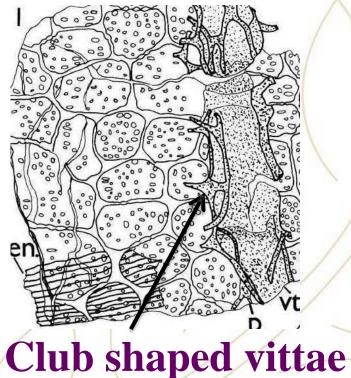
- 1- Fragments showing innermost layer of mesocarp (porous layer) accompanied by parquetory endocarp
  - -Inner most layer of mesocarp
  - -Parquetory endocarp





2- Fragments showing innermost layer of mesocarp (porous layer) accompanied by parquetory endocarp and club shaped vittae





with radiating cells

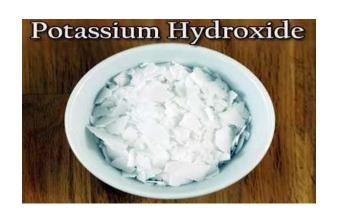
3- Numerous fragments of endosperm showing aleurone grains, containing micro-rosette crystals of calcium oxalate.



#### **Chemical test:**

### **Khellin test:**

Put the *ammi visnaga* powder in a filter paper and add few specks of KOH solid (pellets)











### Microscopical Character:

**Mount in KOH: All key elements** 

Mount in phlourogucinol: Vascular bundle, inner most layer of

mesocarp

**Mount in Water: Negative** 

### Uses

- 1. Spasmolytic (especially on the muscles of the bronchi, GIT, biliary tract, urogenital system and the
  - coronary vessels)
- 2. Whooping cough (use for ttt bronchial asthma)
- 3. Cramp-like conditions of GIT, biliary colic, and painful menstruation.



## Thank You!

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