



Vision

The Faculty of Pharmacy of October University for Modern Sciences and Arts is a pioneer in tutelage, scientific research, and community service at the local and regional levels, and holds an advanced position among its counterparts in international Pharmacy subject ranking

الرؤية

• كلية الصيدلة جامعة اكتوبر للعلوم الحديثة و الآداب كلية رائدة في مجال التعليم و البحث العلمي و المشاركة المجتمعية على المستوى القومي و الإقليمي و لها ترتيب متقدم في التصنيف العالمي لكليات الصيدلة.





Mission

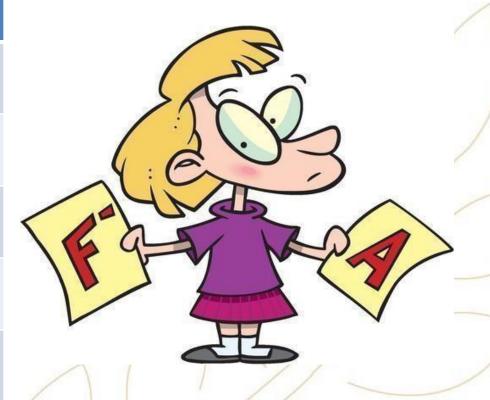
•The Faculty of Pharmacy of October University for Modern Sciences and Arts is nationally accredited, has British partnership, and is committed to producing graduates who are able to compete in national and international job markets and entrepreneurship, and to be an effective member of the medical team providing best medical care, while heeding professional ethics, through an outstanding academic programme and proficient academic staff. The faculty is devoted also to provide effective community services, and exceptional applied scientific research.

لرسالة

• كلية الصيدلة جامعة أكتوبر للعلوم الحديثة والآداب معتمدة محليا، بشراكة بريطانية، تلتزم بتخريج صيدلى قادر على المنافسة في أسواق العمل المحلية و الدولية و ريادة الأعمال، و أن يكون عضو فعال في الفريق الطبى بتقديم أفضل رعاية صحية، مراعياً أخلاقيات المهنة، من خلال برنامج تعليمي متميز و أعضاء هيئة تدريس أكفاء، وكذلك تلتزم الكليه بتقديم خدمات مجتمعية فعالة و أبحاث علمية تطبيقية متميزة.

Pharmacognosy PHG112

Items	Marks
Quizzes	5 Marks
Assignment	15 Marks (10+5)
Practical Exam(s)	40 Marks (15+15+10)
Mid Term Exam	30 Marks
Final Exam	60 Marks
TOTAL	150 Marks



Pharmacognosy
PHG112
RULES

- Lab evaluation –10 marks
- Attendance
- -(only 15 min late is allowed)
- -(sign for yourself).
- •Lab coat:
- -(not allowed to be in the lab without it).
- -(take it on and off before and after you get to the lab).
- •Drawing:
- -(during the lab time).
- -(in a specific note using pencil).





Pharmacognosy PHG112 RULES

- Lab evaluation --10 marks
- Work place and tools:



- (waste disposal \rightarrow don't throw anything in the $\frac{\text{Sink}}{\text{Sink}}$),
- (microscope → switch it OFF).
- Behavior:
 - (may get you to loose the whole 5 marks).





Anise

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





Morphology:

-Shape: Pear shaped, large base and tapered ends

-Size: Small

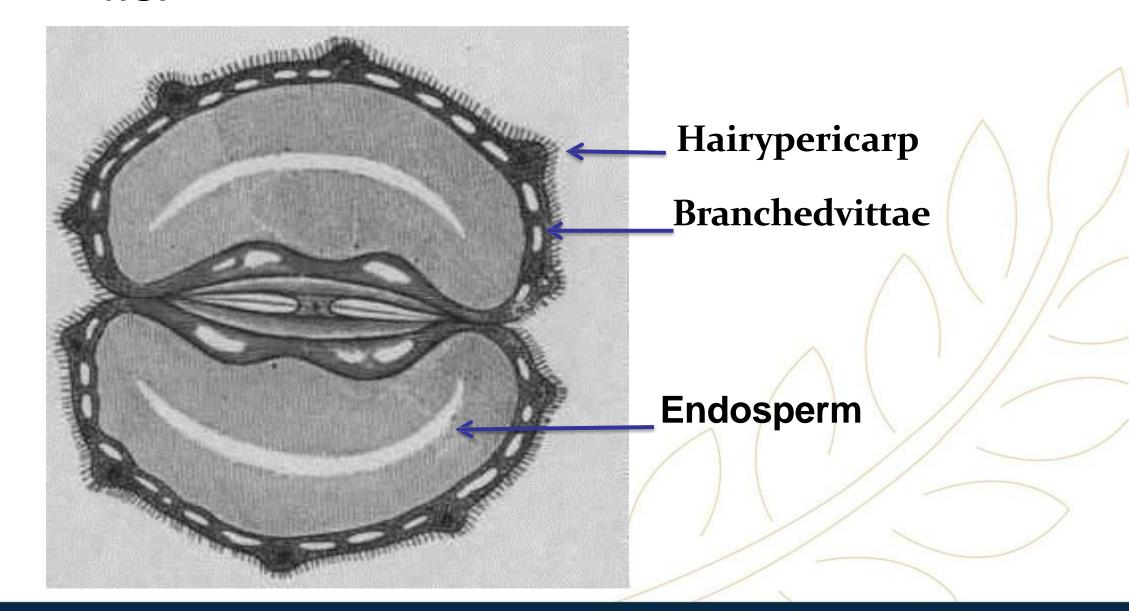
-Colour: Greenish grey

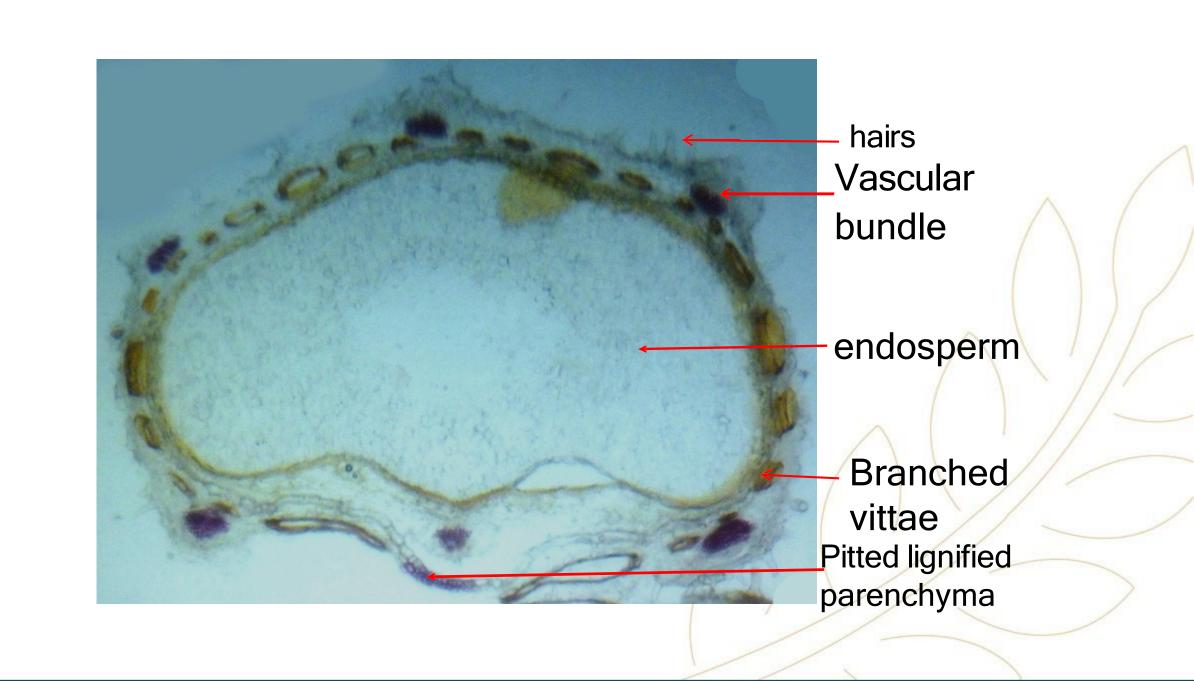
- Odour: Aromatic agreeable

-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.

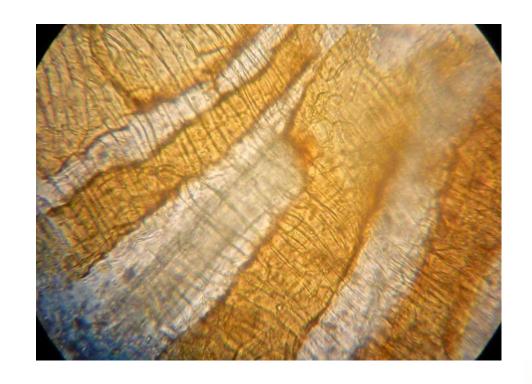


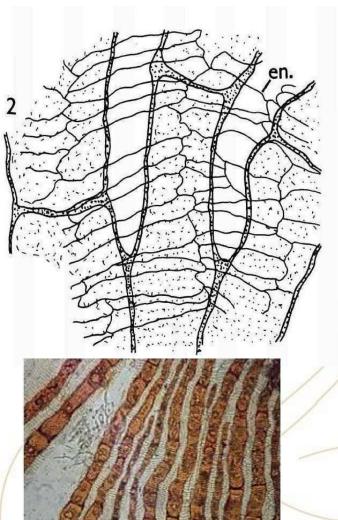
 Unicelluar (occasionally bicellular) non glandular hair with warty cuticle



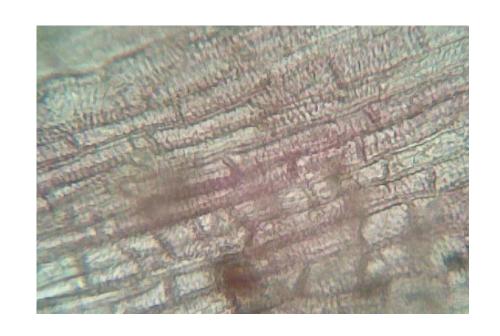


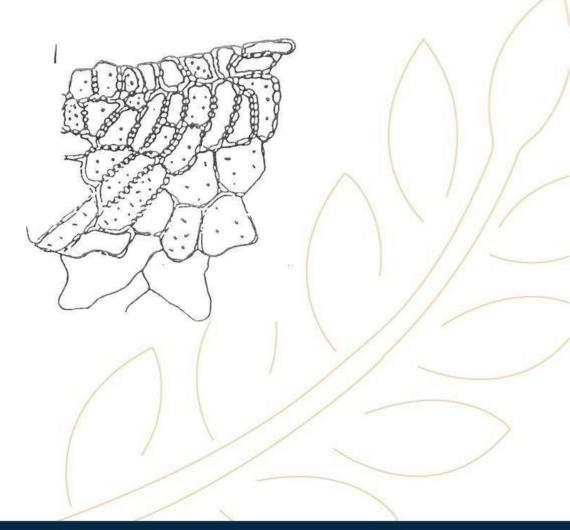
Branched vittae overlapped by non-parquetory **endocarp**



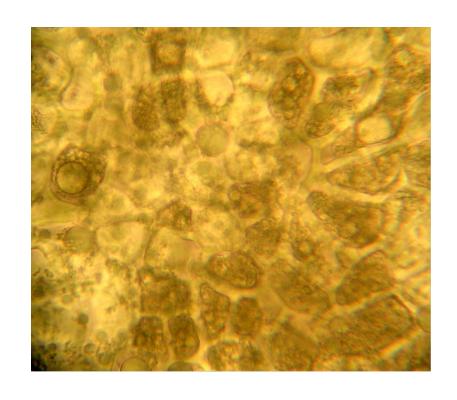


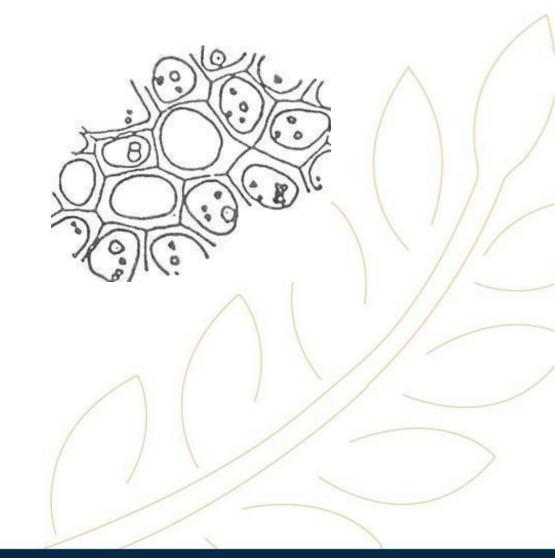
Lignified pitted parenchyma





Numerous fragments of endosperm.





Microscopical Character:

Mount in KOH: All key elements

Mount in Phloroglycinol: Raphe, Vascular bundle, Pitted

lignified parenchyma and Carpophore

Mount in Water: Negative

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

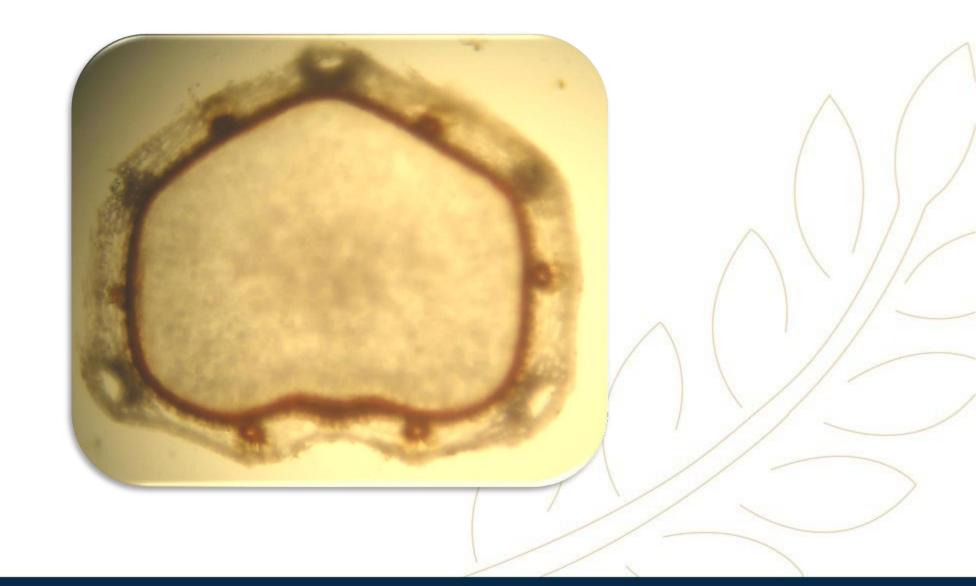
• Odour: Slightly aromatic

• Taste: Bitter

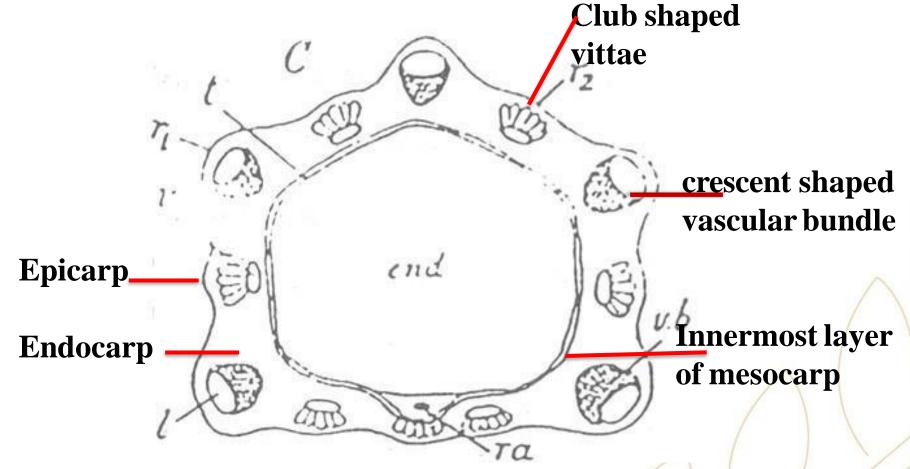
• Surface: Primary ridge Secondary ridge



T.S.



T.S.

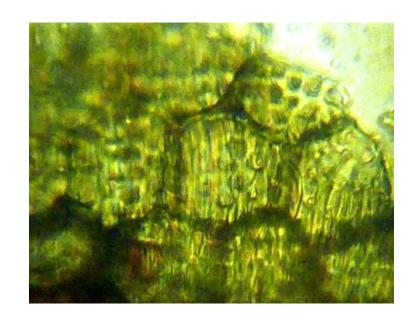


T. S. of Ammi visnaga mericarp (diagram)

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

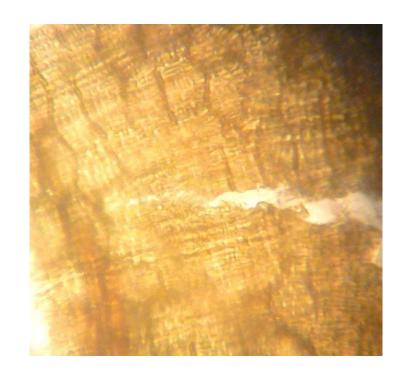


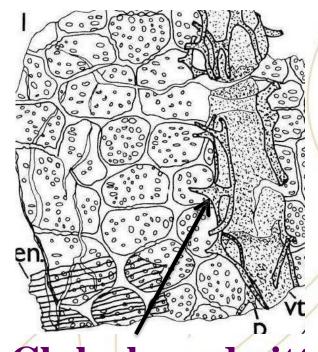
- 1- Fragments showing innermost layer of mesocarp (porous layer) accompanied by parquetory endocarp
 - -Inner most layer of mesocarp
 - -Parquetory endocarp





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





Club shaped vittae with radiating cells

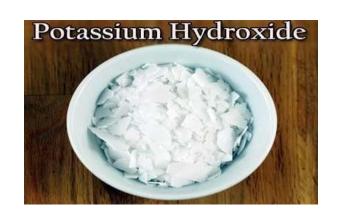
3- Numerous fragments of endosperm showing aleurone grains, containing micro-rosette crystals of calcium oxalate.



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 Phloroglycinol: Raphe, Vascular bundle, inner most layer

of mesocarp and Carpophore

Mount in Water: Negative

Uses

1. Spasmolytic (especially on the muscles of the bronchi, GIT, biliary tract, urogenital system and the

2. Whooping cough (use for ttt bronchial asthma)

coronary vessels)

3. Cramp-like conditions of GIT, biliary colic, and painful menstruation.



Thank You!

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