





October University For Modern Sciences and Arts - MSA-Faculty of Pharmacy



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.

الرسالة

• 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 (9+6)
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 RIILES

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

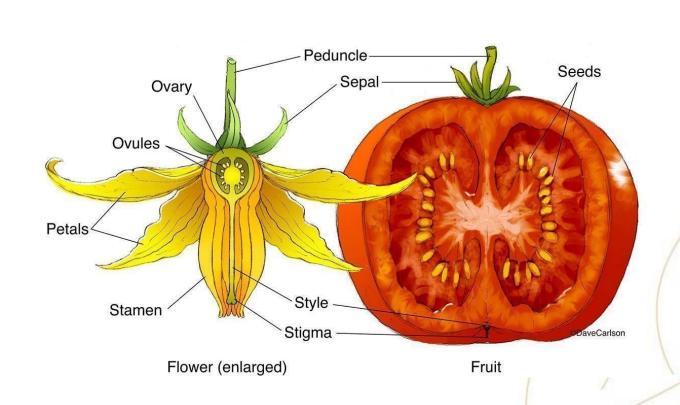


- (waste disposal \rightarrow don't throw anything in the $\frac{\text{Sink}}{\text{Sink}}$).
- $(microscope \rightarrow switch it OFF).$
- Behavior:
 - (may get you to loose the whole 5 marks).

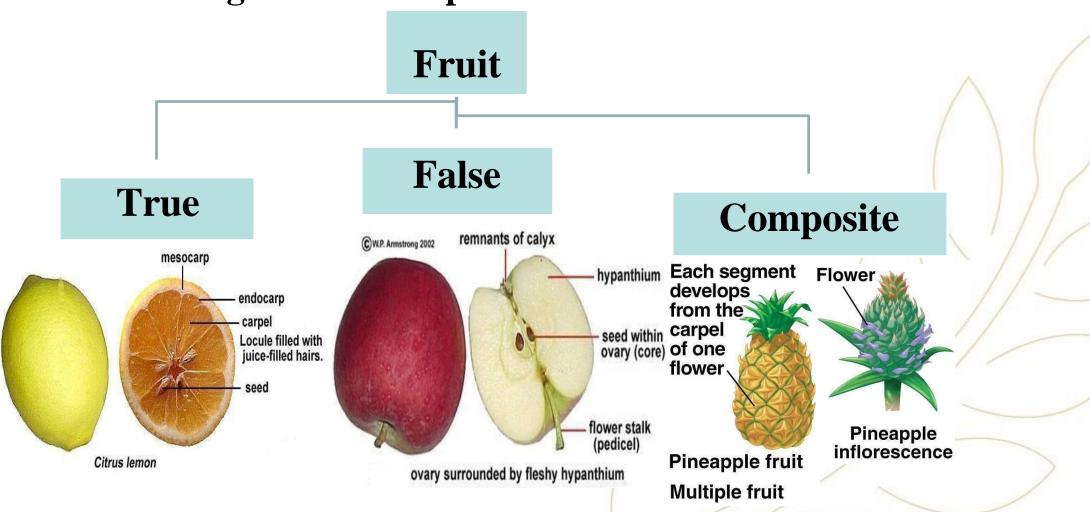


Definition:

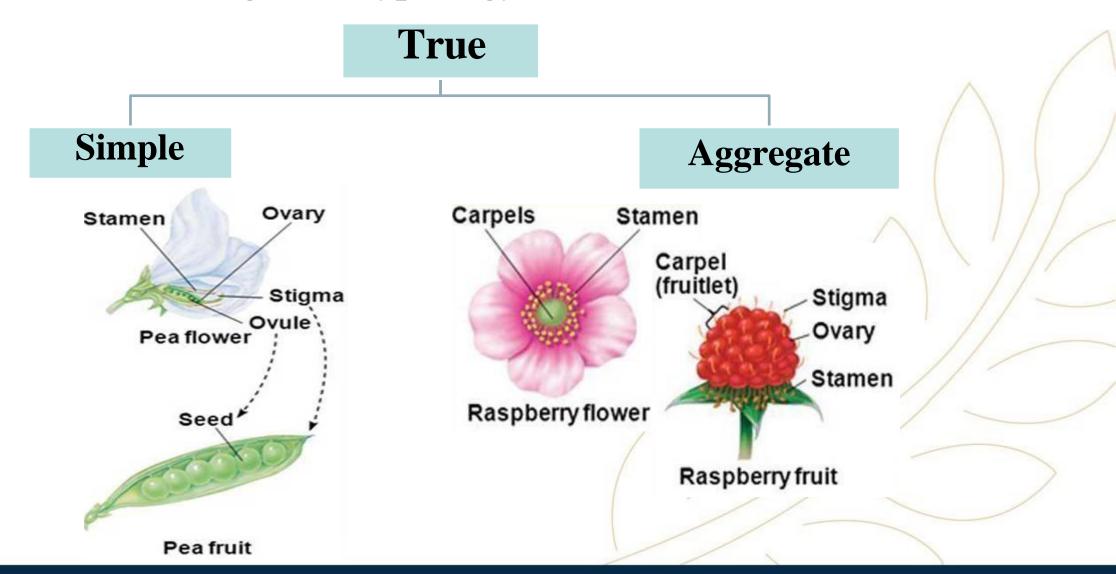
The whole product of development of gynaecium after fertilization.



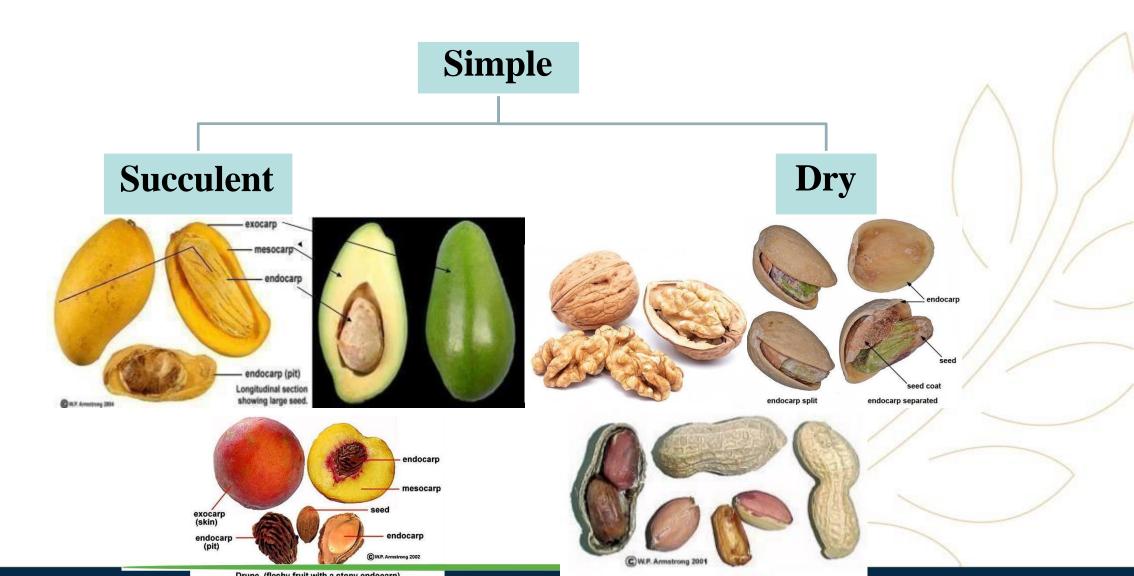
According to the floral parts used:



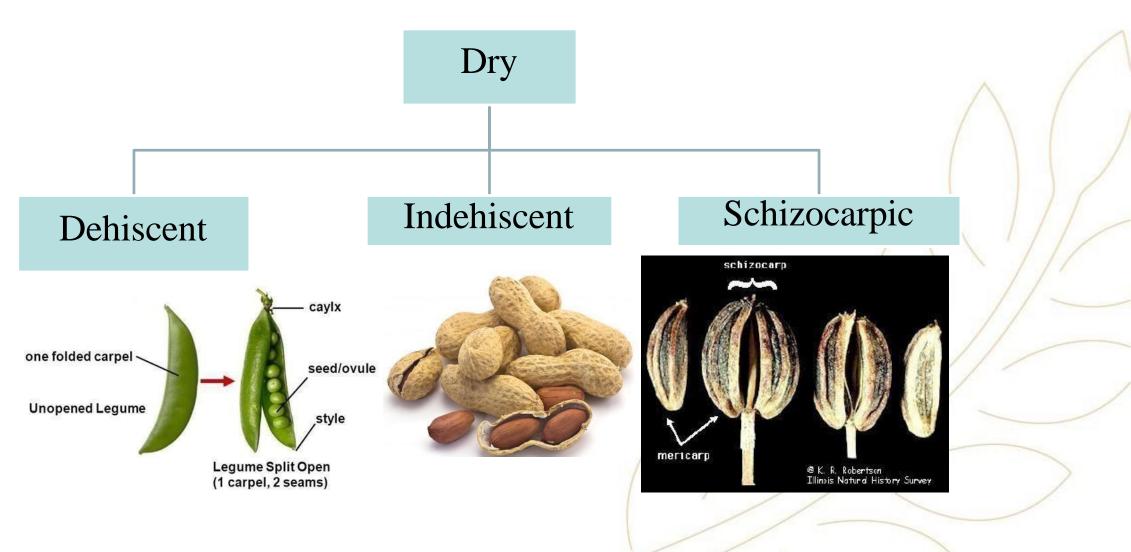
According to the type of gynaecium:



According to the type of pericarp:



According to the behaviour after ripening:





Fennel

• Origin:

It is the dried ripe fruits of *Foeniculum vulgare* family Apiaceae (Umbelliferae).



Morphology:

Shape: Cylindrical

Colour: Yellowish green

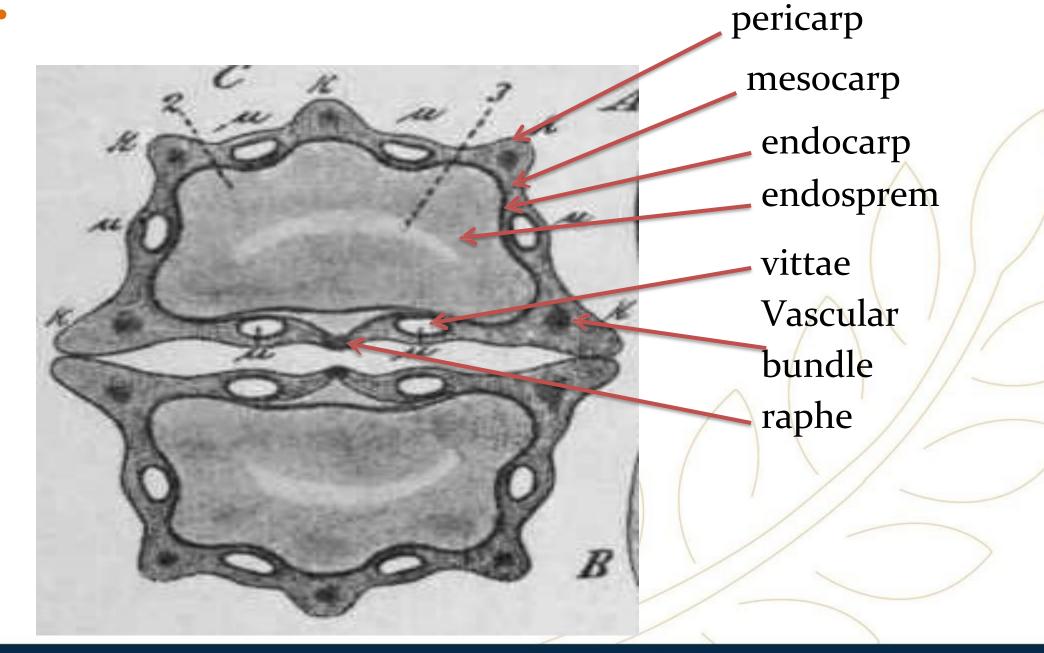
Odor: Aromatic

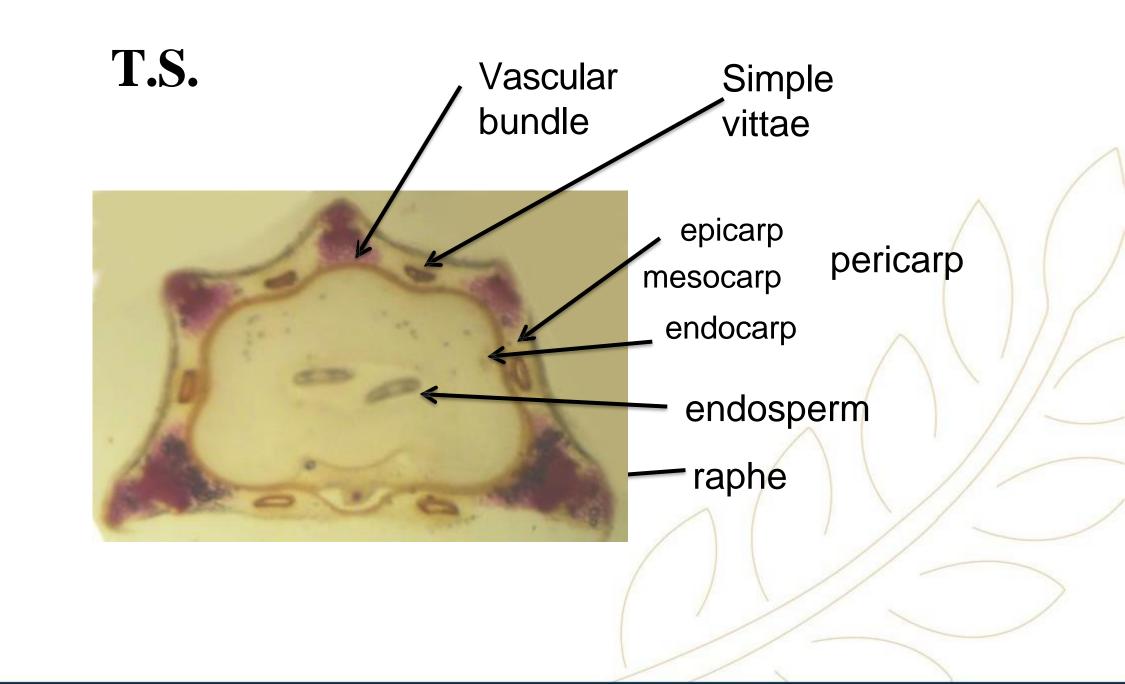
Taste: Sweet taste

Surface: Glabrous
 Primary ridge
 Secondary ridge



T.S.





Powder:

Condition: Fine powder

Colour: Yellowish green

Odour: Aromatic odour

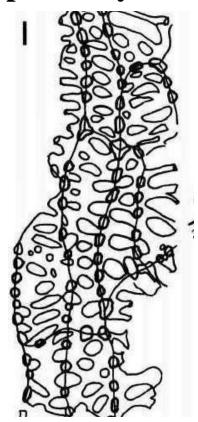
Taste: Aromatic taste



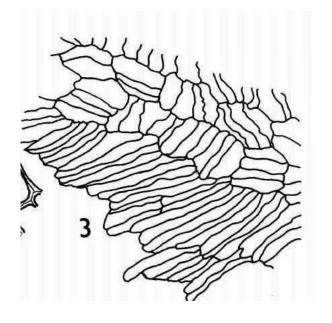


Key elements:

Reticulate lignified parenchyma



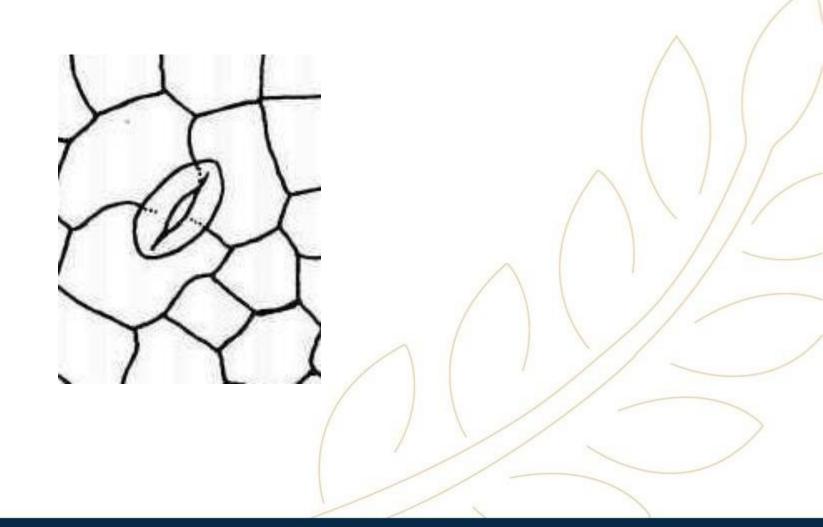
Parquetory endocarp



Simple vittae



Epicarp: Straight wall, smooth cuticle, anomocytic stomata.



Microscopical Character:

Mount in KOH: All key elements

Mount in Phlouroglucinol: Raphe, Vascular bundle, Reticulate

lignified parenchyma and Carpophore

Mount in Water: Negative

Uses



- 1. Carminative (relative the associated
 - pain and cramping in GIT)
- 2. Lactagogue
- 3. Mild expectorant
- 4. Aid to weight loss









Anise

Origin:

It is the dried fruits of Pimpinella anisum Family Apiaceae





Morphology:

Shape: Pear shaped, large base and tapered

ends

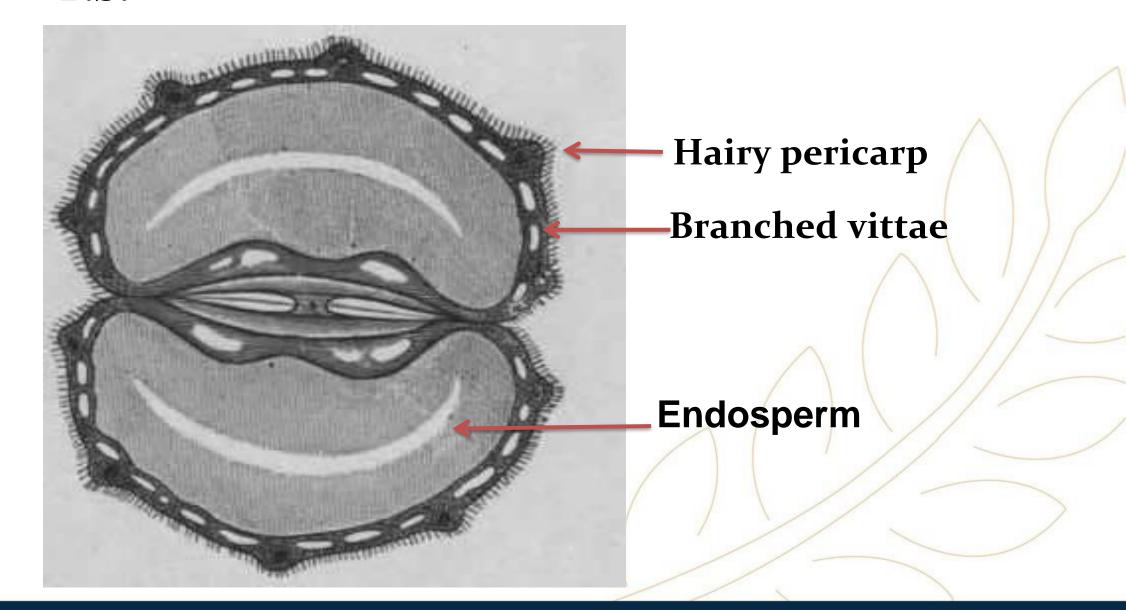
Size: Small

Colour: Greenish grey

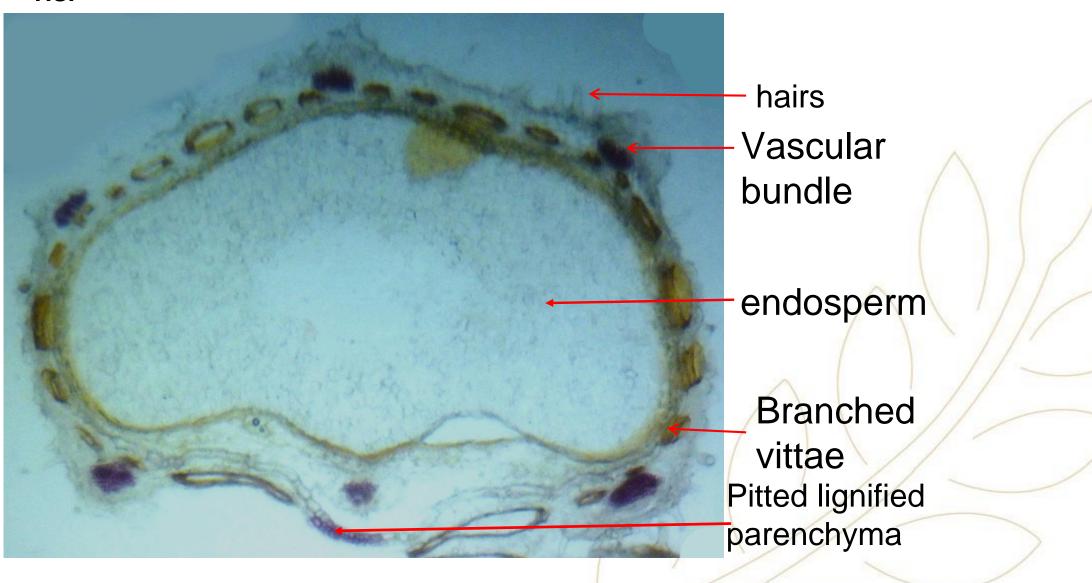
Odour: Aromatic agreeable

Surface: Hairy on dorsal side

T.S.



T.S.



Powder:

Physical characters:

Condition: Fine powder

Colour: Yellowish green

Odour: Aromatic odour

Taste: Sweet aromatic taste



Key elements:

1- Epicarp

Slightly wavy wall, striated cuticle, anomocytic stomata.



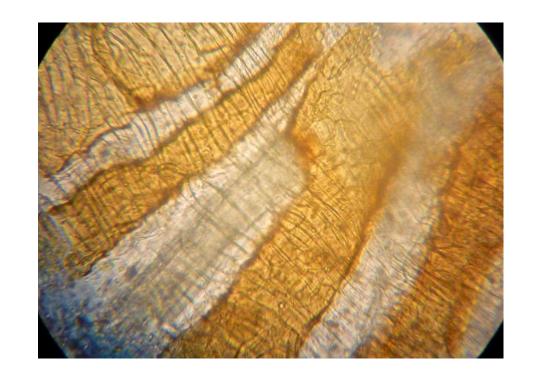
2-Unicelluar (occasionally bicellular) non glandular hair with warty cuticle

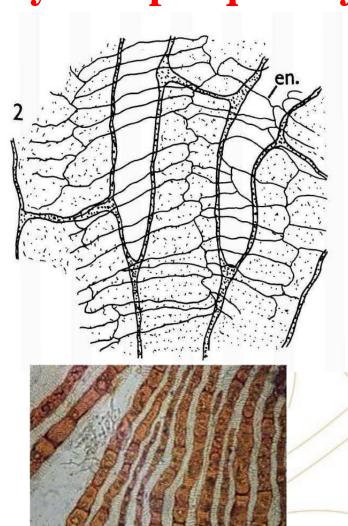




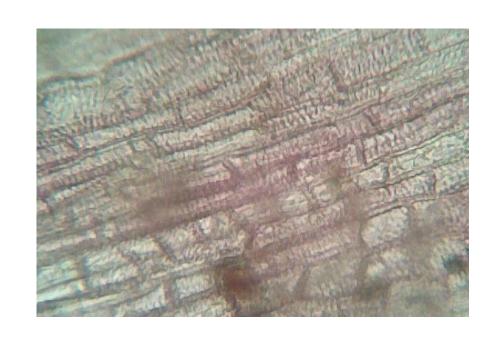
3-Branched vittae overlapped by non-parquetory

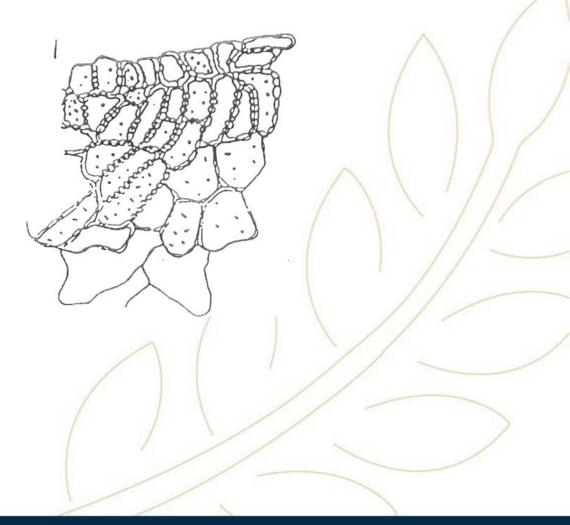
endocarp



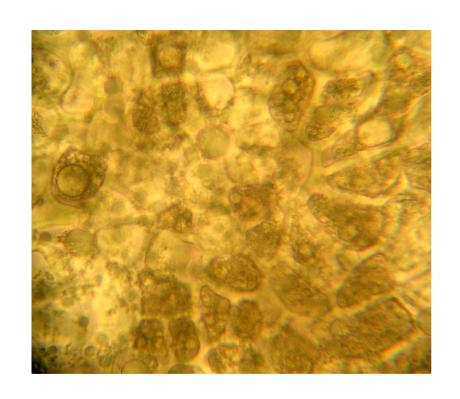


4-Lignified pitted parenchyma





5-Numerous fragments of endosperm.





Microscopical Character:

Mount in KOH: All key elements

Mount in phlouroglucinol: Raphe, Vascular bundle, Pitted lignified

parenchyma and Carpophore

Mount in Water: 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.

References:

- 1. Trease & Evans' Pharmacognosy by William Charles Evans, 2002.
- 3. Fundamentals of Pharmacognosy and Phytotherapy by Michael Heinrich, Joanne Barnes,

SimonGibbons, and Elizabeth M. Williamson, 2004.

2. Botany: An introduction to Plant Biology, Third edditionby James D. Mauseth, 2008.

Useful links:

http://www.hort.purdue.edu/newcrop/med-aro/default.html http://www.herbmed.org/ http://www.danish-schnapps-recipes.com/plants.html http://www.botanical.com/



Thank You!

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