

Stem And Stembark - Evaluate

Stone cells

Occurrence

- | | | | |
|------------------------------|-----------------------------------|-----------------------------------|--------------------------------|
| ☐ Few | ☐ Abundant | ☐ Isolated | ☐ Group |
|------------------------------|-----------------------------------|-----------------------------------|--------------------------------|

Walls

- | | | | |
|---|--|--|---|
| ☐ Thin walled | ☐ Thick walled | ☐ Lignified | ☐ Striated |
| ☐ Crenate margin | ☐ Beaded | ☐ Projections | ☐ Pitted |
| ☐ Non pitted | ☐ Distinctly pitted | ☐ Transversely pitted | ☐ Radiating pits |
| ☐ Branching pits | | | |

Shape

- | | | | |
|-------------------------------------|------------------------------------|---------------------------------------|-------------------------------------|
| ☐ Oval | ☐ Circular | ☐ Round | ☐ Spherical |
| ☐ Oblong | ☐ Irregular | ☐ Isodiametric | ☐ Angular |
| ☐ Triangular | ☐ Squarish | ☐ Rectangular | ☐ Pentagonal |
| ☐ Polyhedral | | | |

Sclereids

Occurrence

- | | | | |
|------------------------------|-----------------------------------|--------------------------------|-----------------------------------|
| ☐ N/A | ☐ Isolated | ☐ Group | ☐ Abundant |
| ☐ Few | | | |

Walls

- | | | | |
|---|---------------------------------------|---|---|
| ☐ Thin walled | ☐ Thick walled | ☐ Three sided thickening | ☐ Lignified |
| ☐ Striated | ☐ Branched | ☐ Projectioned | ☐ Peg like extension |
| ☐ Beaded | ☐ Pitted walls | ☐ Simple pits | ☐ Distinct pits |
| ☐ Radiating pits | | | |

Shape

- | | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|
| ☐ Oval | ☐ Circular | ☐ Round | ☐ Spherical |
| ☐ Oblong | ☐ Elongated | ☐ Isodiametric | ☐ Rectangular |
| ☐ Triangular | ☐ Cylindrical | ☐ Pentagonal | ☐ Polyhedral |
| ☐ Fibre like | ☐ Blunt end | ☐ Pointed ends | ☐ Cone shaped |

Lumen

- | | | |
|---------------------------------|-------------------------------|---------------------------------|
| ☐ Narrow | ☐ Wide | ☐ Pitted |
|---------------------------------|-------------------------------|---------------------------------|

Fibers

Occurrence

- | | | | |
|------------------------------|-----------------------------------|-----------------------------------|--------------------------------|
| ☐ Few | ☐ Numerous | ☐ Isolated | ☐ Group |
|------------------------------|-----------------------------------|-----------------------------------|--------------------------------|

Walls

- | | | | |
|---|---|---|---|
| ☐ Thin walled | ☐ Thick-walled | ☐ Lignified | ☐ Non lignified |
| ☐ Frequently broken | ☐ Occasionally twisted | ☐ Striated | ☐ Projections |
| ☐ Septate | ☐ Faint transverse septa | ☐ Crenate margin | ☐ Dentate margin |
| ☐ Smoothly / finely striated | ☐ Irregular swellings | ☐ Beaded | ☐ Radiating pits |
| ☐ Oblique pits | ☐ Transverse pits | ☐ Distinct pits | ☐ Slit like |
| ☐ Crystal fibres | ☐ Bifurcating ends | | |

Shape

- | | | | |
|--------------------------------------|-------------------------------------|---------------------------------------|---|
| ☐ Very long | ☐ Bent | ☐ Pointed apex | ☐ Irregular margin |
| ☐ Oval | ☐ Circular | ☐ Round | ☐ Spherical |
| ☐ Rectangular | ☐ Pentagonal | ☐ Squarish | ☐ Triangular |
| ☐ Polyhedral | | | |

Lumen

- | | | | |
|------------------------------------|-------------------------------|---------------------------------|---|
| ☐ Narrow | ☐ Wide | ☐ Uneven | ☐ Highly pitted wide lumen |
| ☐ Slit like | | | |

Starch grains

Shape

- | | | | |
|---------------------------------|------------------------------------|-------------------------------------|--------------------------------|
| ☐ Simple | ☐ Compound | ☐ Small | ☐ Round |
| ☐ Oval | ☐ Spherical | ☐ Triangular | |

Type of hilum

- | | | | |
|----------------------------------|--|------------------------------------|--------------------------------|
| ☐ N/A | ☐ Narrow | ☐ Slit | ☐ Cleft |
| ☐ Radiate | ☐ Centrally located | ☐ Eccentric | |

Calcium oxalate crystals

- | | | | |
|-------------------------------------|--|---|-------------------------------------|
| ☐ N/A | ☐ Prismatic | ☐ Clusters | ☐ Rosettes |
| ☐ Acicular | ☐ Microsphenoidal | ☐ Sandy | ☐ Idioblasts |
| ☐ Rod shaped | ☐ Crystal layer | ☐ Crystal sheath | ☐ Raphides |

Medullary rays

- | | | | |
|---|---------------------------------------|---------------------------------------|---|
| ☐ Uniseriate | ☐ Biseriate | ☐ Multiseriate | ☐ Tangentially-cut |
| ☐ Longitudinally-cut | ☐ Radially-cut | | |

Cork

- | | | | |
|---------------------------------------|--|--|---------------------------------------|
| ☐ N/A | ☐ Thin walled | ☐ Thick walled | ☐ Beaded walls |
| ☐ Irregular | ☐ Lignified | ☐ Non-lignified | ☐ Suberized |
| ☐ Multilayered | ☐ Radially arranged | ☐ Isodiametric | ☐ Oval |
| ☐ Elongated | ☐ Rectangular | ☐ Pentagonal | ☐ Hexagonal |
| ☐ Polygonal | ☐ Pitted lumen | | |

Isolated Oil Cells

- | | |
|------------------------------|--------------------------------|
| ☐ N/A | ☐ Ovoid |
|------------------------------|--------------------------------|

Tubular Lactiferous Canals

- | | | | |
|------------------------------------|-----------------------------------|---------------------------------|-------------------------------|
| ☐ N/A | ☐ Isolated | ☐ Groups | ☐ Oval |
| ☐ Spherical | | | |

Masses

- | | | | |
|------------------------------|--|--|--------------------------------|
| ☐ N/A | ☐ Granular masses | ☐ Dark brown cells containing tannins | ☐ Gummy |
|------------------------------|--|--|--------------------------------|

- | | | | |
|------------------------------------|---------------------------------------|-------------------------------------|------------------------------------|
| ☐ Elongated | ☐ Rectangular | ☐ Pentagonal | ☐ Hexagonal |
| ☐ Polygonal | ☐ Pitted lumen | | |

Isolated Oil Cells

- | | |
|------------------------------|--------------------------------|
| ☐ N/A | ☐ Ovoid |
|------------------------------|--------------------------------|

Tubular Lactiferous Canals

- | | | | |
|------------------------------------|-----------------------------------|---------------------------------|-------------------------------|
| ☐ N/A | ☐ Isolated | ☐ Groups | ☐ Oval |
| ☐ Spherical | | | |

Masses

- | | | | |
|------------------------------|--|--|--------------------------------|
| ☐ N/A | ☐ Granular masses | ☐ Dark brown cells containing tannins | ☐ Gummy |
|------------------------------|--|--|--------------------------------|

Rhytidoma

- | | | |
|------------------------------|------------------------------------|--------------------------------------|
| ☐ N/A | ☐ Irregular | ☐ Rectangular |
|------------------------------|------------------------------------|--------------------------------------|

Search