## Seeds And Fruits - Evaluate

Pericarp					
Epicarp					
Thin walled	Thick walled	Irregular	Striated		
Polygonal	Stomata				
Mesocarp					
Thin walled	Thick walled	Rectangular	Polygonal		
Reticulate	Oval	Colored			
Endocarp					
Thin walled	Sinuous walled	Elongated	Polygonal		
	Testa	a			
Epidermis					
Thin walled	Thick walled	Colorless	Striated		
Oval	Elongated	Hexagonal	Yellow content		
Brown content	Stomata				
Additional layer					
Bearer cell	Spool cell	Palisade cell	Arillus		
	Endosperm				
_	Endosp				
Occurrence		_	_		
Absent	Dominant	Wide	Thin walled		
Thin layered	Multi layered				
Shape					
Oval	Rectangular	Polygonal			

	Paren	chyma cell	
Occurrence N/A	Few	Abundant	Groups
Wall Thin	Thickened	Uneven	Wrinkled
Irregular swelling	Pitted	Slit pits	Round pits
Lignified	Non lignified		
Lumen filled with			
Aleurone grains	Starch granules	Mucilage	Calcium oxalate crystals
Oil globules	Brownish secretions	Reticulated	
Shape			
Oval	Rounded	Elongated	Rectangular
Polygonal	Irregular		
	Aleuro	one grains	
Occurrence			
Endosperm	Cotyledons	Embryo	Distributed throughout tissue
Size			
Small	Large		
Shape			Cabanian
Round	Oval	Ovate	Spherical
Globoid	Crystalloid	Irregular	
In association with			
Fixed Oil	Starch	Fat	Calcium Oxalate crystal
	S	tarch	
Occurrence NA	Few	Abundant	
Shana			
Shape Simple	Compound	Small	Round
Oval	Spherical	Triangular	
Type of hilum			
Narrow	Cleft	Radiate	Slit
Eccentric	Centrally located		

Calcium Oxalate Crystals				
Occurrence				
NA	Testa	Cotyledons	Idioblasts (mesocarp)	
Aleurone grains	Perisperm	Pericarp epidermis	Seed coat	
Shape				
Clusters	Rosettes	Acicular	Microsphenoidal	
Sandy	Needles	Idioblasts	Rod shaped	
Prismatic	Crystal layer	Crystal sheath		
	Sto	one cells		
Occurrence				
□ N/A	Few	Abundant	Isolated	
Group				
Walls				
Thin walled	Thick walled	Striated	Beaded	
Crenate margin	Projections	Pitted	Radiating pits	
Branching pits	Transversely pitted	Distinctly pitted	Lignified	
Shape				
Oval	Circular	Rounded	Spherical	
Oblong	Isodiametric	Irregular	Angular	
Triangular	Squarish	Rectangular	Pentagonal	
Polyhedral	Wheel			
Lumen				
NA	Wide	Narrow	Pitted	
Slit like				
Sclereids				
Occurrence				
N/A	Few	Abundant	Isolated	
Group				
Walls				
Thin walled	Thick walled	Three sided thickened	Beaded	
Branched	Striations	Projections	Peg like extension	
Pitted walls	Radiating pits	Simple pits	Distinct pits	
Lignified				

Walls			
Thin walled	Thick walled	Three sided thickened	Beaded
Branched	Striations	Projections	Peg like extension
Pitted walls	Radiating pits	Simple pits	Distinct pits
Lignified			
Shape			
Oval	Circular	Rounded	Spherical
Isodiametric	Rectangular	Polyhedral	Pentagonal
Triangular	Cylindrical	Elongated	Fibre like
Very long	Blunt end	Pointed end	Oblong
Cone shaped			
Lumen			
NA	Wide	Narrow	Pitted
	Vesse	els	
Occurrence	Vesse	els	
Occurrence	Vesse	els	☐ Isolated
			solated
□ N/A			☐ Isolated
□ N/A			☐ Isolated
N/A Group  Walls	Few	Numerous	
N/A Group  Walls Thin	Few Thick	☐ Numerous ☐ Uneven	☐ Broken
N/A Group  Walls Thin Swollen	Few Thick Septate	☐ Numerous ☐ Uneven	☐ Broken
N/A Group  Walls Thin Swollen Bordered pits	Few Thick Septate	☐ Numerous ☐ Uneven	☐ Broken
N/A Group  Walls Thin Swollen Bordered pits	Few Thick Septate Lignified	☐ Numerous ☐ Uneven ☐ Oblique end	☐ Broken ☐ Slit pits
N/A Group  Walls Thin Swollen Bordered pits  Shape Annular	Few Thick Septate Lignified	☐ Numerous ☐ Uneven ☐ Oblique end	☐ Broken ☐ Slit pits

Cotyledon					
NA	Oval	Rectangular	Polygonal		
Thin walled	Thick walled				
		Trichomes			
NA	Simple	Covering	Glandular		
Bicellular	Multicellular	Multiseriate	Thick walled		
Stellate	Lignified				
		Mucilage			
NA	Occurrence	Epidermis	Endosperm		
Trichomes					
		Stomata			
NA	Anomocytic	Anisocytic	Diacytic		
Paracytic	Actinocytic	Tetracytic			
		Vittae			
NA	Irregular cell	Yellow	Dark brown		
Septate					
	P	Pigment cell			
NA	Brown	Yellow	Pinkish red		
Fiber					
NA	Long	Thick walled	Non lignified		
Special features					
Tegmen NA					
Fatty crystal NA					
Scierenchyma  NA					

Mesophyll cells  NA			
Secretory cells  NA			
Silica crystals  NA			

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