

FAMILY: ROSACEAE

Genus: *Prunus*

Morphology

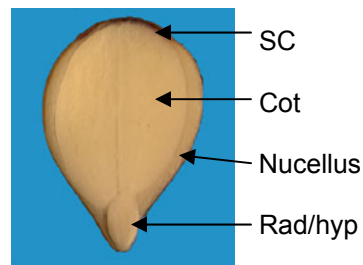


external view



endocarp

seed



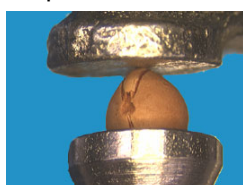
cross section



1. PRECONDITIONING & PREPARATION:

METHOD	TIME	TEMP (°C)
Steps: 1. Soak intact fruits in beaker of water 2. Crack and remove endocarp. Use vise placing pressure on seam. 3. Nick seed coat at distal end 4. Soak seeds, changing water each day 5. Remove seed coat and nucellus from embryo	overnight	20-25
	1-3 days	20-25

Step 2:

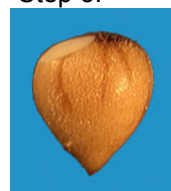


seed in vise with pressure on seam



endocarp, left

Step 3:



Step 5:



seedcoat/nucellus

embryo

2. STAINING:

METHOD	TZ Conc(%)	TIME (hrs)	TEMP (°C)
Place intact embryo in solution	1.0	2	35

ASSOCIATION OF OFFICIAL SEED ANALYSTS

2007

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GENUS: *Prunus*

Post Staining Notes: None



3. EVALUATION:

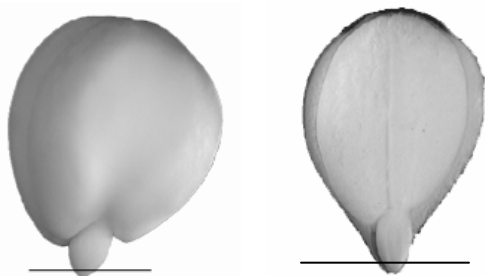
VIABLE (NORMAL STAINING)

- radicle completely stained or unstained distal tip acceptable
- hypocotyl completely stained
- cotyledons completely stained, or a third or less of distal end unstained if pervading necroses. or less than half of distal end if superficial necroses, or area near center unstained.

NON-VIABLE (ABNORMAL OR NO STAINING)

- radicle greater than distal tip unstained
- hypocotyl less than completely stained
- cotyledons basal half less than completely stained or more than a third of distal end unstained if pervading necroses, or half or more of distal end unstained if superficial necroses

OTHER TISSUE/NOTES

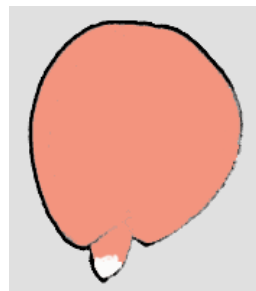
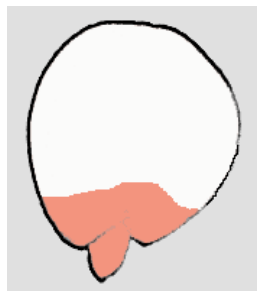
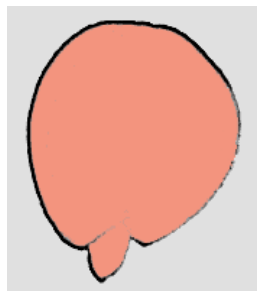


distal tip of radicle (just below the conducting tissue)

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Seed stain evaluation

Lab references: 1, 5, 8