

**FAMILY: POACEAE**

GENUS: *Dactylis*



**1. PRECONDITIONING: None**

Note: Unimbibed seed have soft endosperm.

Morphology



lemma palea

Fig 1 External

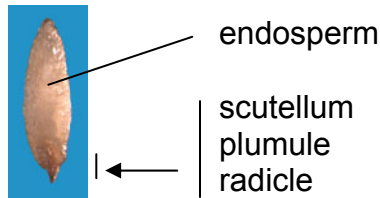


Fig 2 Embryo



**2. PREPARATION AND STAINING:**

Note: If the seed unit is a multiple, test all caryopses and count the unit as viable if at least one caryopsis is viable.

METHOD	TZ Conc(%)	TIME (hrs)	TEMP (°C)
1. pierce in central endosperm area	1.0	4-12	20-35
2. bisect longitudinally, retaining half for staining or leave seed intact at distal end.	0.1	4-12	20-35
3. cut laterally, slightly above embryo	1.0	4-12	20-35



1



2



3

Fig 3

2007

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**Post Staining Notes:** For pierced and laterally cut seeds, clear with lactic acid for 2 hours.



**3. Evaluation:**

**VIABLE (NORMAL STAINING)**

- entire embryo evenly stained
- unstained outer edge of scutellar region acceptable

**NON-VIABLE (ABNORMAL OR NO STAINING)**

- any essential part of the embryo unstained
- irregular or uneven margin between scutellum and endosperm

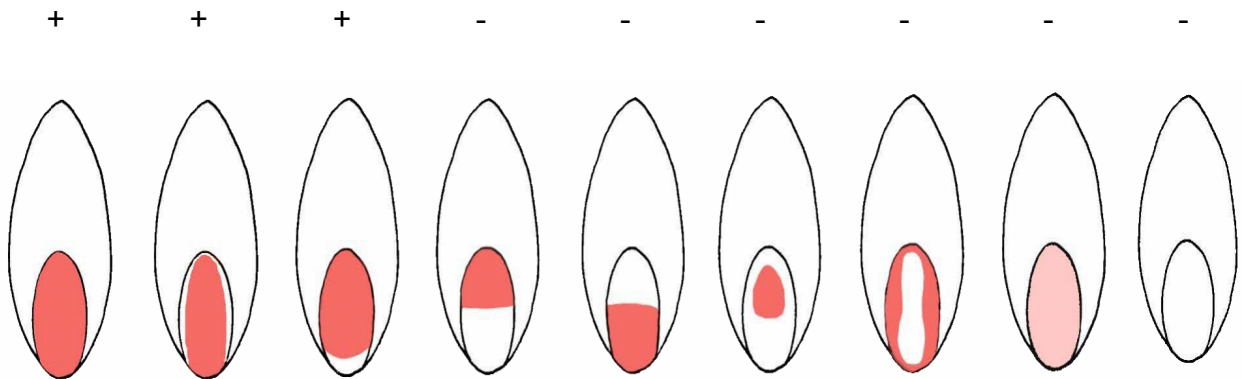


Fig 4

Lab References: 2, 4, 5, 6, 9, 10, 11, 13