## FAMILY: MELANTHIACEAE

Genera: Toxicoscordion, Veratrum, Zigadenus

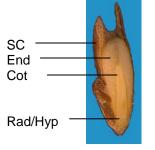


METHOD	TIME (h)	TEMP (°C)
Imbibe on moist media	overnight	20-25

## Morphology







Toxicoscordion

Veratrum reflected light

transmitted light

Fig 1 External

Fig 2 Internal

# 2. PREPARATION AND STAINING:

METHODS	TZ Conc (%)	TIME (h)	TEMP (°C)
Cut longitudinally leaving enough tissue intact to keep both halves together	1.0	overnight	30-35





Fig 3 Preparation method

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**Post-staining notes:** Bisect and spread halves to examine embryo and endosperm.

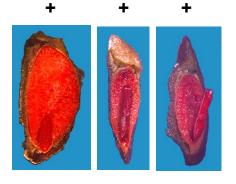


#### VIABLE (NORMAL STAINING)

- entire embryo evenly stained
- endosperm stained. Minor areas of unstained endosperm allowable if away from the embryo.

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

- any essential part of embryo unstained
- endosperm unstained or discolored adjacent to the embryo.



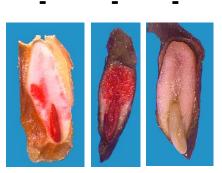


Fig 4 Seed stain evaluation

Photos: Annette Miller, USDA/ARS NLGRP