FAMILY: AQUIFOLIACEAE

Genera: Ilex



1. PRECONDITIONING:

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

Morphology





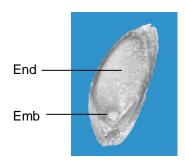


Fig 2 Internal

Note: Embryo is rudimentary.

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

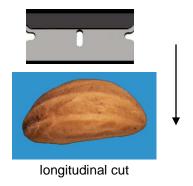


Fig 3 Preparation method

FAMILY: AQUIFOLIACEAE

Genera: *Ilex*

Post-staining notes: Spread halves apart to view embryo.



3. EVALUATION:

VIABLE (NORMAL STAINING)

- entire embryo evenly stained
- endosperm stained (minor discoloration or unstained areas allowed if away from embryo)

NON-VIABLE (ABNORMAL OR NO STAINING)

- any part of embryo unstained
- endosperm discolored or unstained close to embryo



Fig 4 Seed stain evaluation

Photos and illustrations: Annette Miller, USDA/ARS NLGRP