

Suberin, lignin and callose fluorescent stain

Materials

0.1% (w/v) berberine hemisulphate in dH₂O

0.5% aniline blue (w/v) in dH₂O

0.1% (w/v) FeCl₃ in 50% glycerine (add glycerine to filtered aqueous FeCl₃)

Method

1. Stain in 0.1% (w/v) berberine hemisulphate for 1 hour.
2. Wash sections in several changes of distilled water.
3. Transfer sections to 0.5% aniline blue (w/v) in distilled water for 30 mins.
4. Wash with dH₂O.
5. Mount sections in 0.1% (w/v) FeCl₃ in 50% glycerine
6. Observe under UV light

Notes

This method can be used on fresh tissue sections, or fixed samples or LR white resin embedded sections.

Ref: *Brundrett et al. (1988) Protoplasma 146: 133-142*