

FD Methyl Green Solution

(Cat. #: PS105)

FD methyl green solution is formulated for the staining of both neuronal and non-neuronal cellular elements. This solution can be used with frozen or paraffin-embedded tissue sections as well as cultured cells. The following procedure has been proven to produce excellent staining or counterstaining of sections from various types of tissue. However, variations in tissues and tissue preparation may require that the duration of steps 6, 7 and 9 (cf. below) be shortened or lengthened to obtain the best results. The staining procedure takes approximately 75 minutes and should be carried out at room temperature.

Staining Procedure:

1. Place in xylene or xylene substitutes for 3 minutes.
2. Place in 100% (200 proof) ethanol, 2 changes, 3 minutes each.
3. Place in 95% ethanol for 3 minutes.
4. Place in 75% ethanol for 3 minutes.
5. Place in distilled water, 3 changes, 3 minutes each.
6. Stain in FD methyl green solution for 10 minutes depending on the desired intensity.
Note: the solution should be filtered before use.
7. Rinse in 85% ethanol, 5 dips (may shorten or prolong to increase or decrease the staining intensity).
8. For counterstaining or if too much color is lost during alcoholic dehydration, blot slides on filter paper and let air-dry.
9. Dehydrate in 100% (200 proof) ethanol, 3 changes, 2 minutes each.
10. Clear in xylene or xylene substitutes, 3 changes, 3 minutes each.
11. Coverslip in resinous mounting medium (e.g. Permount®).

Results:

Nuclei and other basophilic cellular elements are stained bluish-green.

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Warning: Xylene and ethanol are harmful or toxic to human if ingested or inhaled. The experiment should be performed under a chemical hood with appropriate protection. Avoid contact with skin and eyes. Wear glasses and disposable gloves while doing the experiment.