FD Hematoxylin Solution™

(Cat. #: PS104)

FD Hematoxylin 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 results in most cases. However, variation in tissues and tissue preparation may require that the duration for steps 6 and 8 (cf. below) be shortened or lengthened to obtain the best results. The staining procedure takes approximately 1.5 hour 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 hematoxylin solution for 1-5 minutes depending on the desired intensity. Note: the solution must be filtered before use.
7. Rinse briefly in tap water, 3 dips.
8. Rinse in distilled water containing 2% glacial acetic acid, 5 dips (may prolong to decrease the staining intensity and the background).
9. Wash in running tap water for 20 minutes, and then rinse in distilled water.
10. Counterstain in eosin Y solution (optional).
11. Rinse briefly in 95% ethanol, 3 dips.
12. Dehydrate in 100% ethanol (200 proof), 3 changes, 3 minutes each.
13. Clear in xylene or xylene substitutes, 3 changes, 3 minutes each.
14. Coverslip in resinous mounting medium (e.g. Permount®).

Results:

Nuclei and other basophilic cellular elements are stained blue.

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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.