

TECHNICAL DATA SHEET 1034

LUXOL® FAST BLUE, Ready-to-Use

Luxol Fast Blue (LFB) demonstrates myelin, the fatty white substance, known as "white matter" that surrounds the axon of nerve cells. LFB differentiates between the white and gray matter of the brain; the myelin appear blue while the gray and demyelinated white matter appear colorless.

FIXATION

The method is most frequently used on paraffin sections of specimen fixed adequately (at least 24 hours) in 10% neutral buffered formalin.

PROCEDURE

1. Obtain formalin fixed, paraffin embedded slide of CNS tissue.
2. Deparaffinize slide in two changes of Xylene for 3 minutes each (to remove paraffin wax)
3. Dehydrate slide in two changes of 100% EtOH followed by two changes of 95% EtOH (10 dips each)
4. Leave in Luxol Fast Blue solution in a 56 degree oven overnight. (Container should be tightly capped, as this alcoholic solution will evaporate)
5. Rinse off excess stain with 95% EtOH (10 dips).
6. Rinse in distilled water (30 seconds)
7. Differentiate the slides in Scott's Bluing Reagent or prepared lithium carbonate solution for 10-20 seconds.
8. Continue differentiation in 70% EtOH until the gray matter can be distinguished.
9. Rinse in distilled water (30 seconds)
10. Check microscopically to see if gray matter is colorless and white matter is blue. (do not allow the tissue on the slide to dry)
11. Repeat the differentiation steps (7-9) if necessary

12. When differentiation is complete, transfer slides to distilled water (30 seconds)
13. Transfer to 95% EtOH (2 changes, 10 dips each)
14. Place in 100% EtOH (2 changes, 10 dips each)
15. Transfer to Xylene (2 changes, 10 dips each)
16. Mount slides using Poly-Mount[®] Xylene, Poly-Mount[®] or another synthetic resin and glass coverslip

RESULTS

Myelin..... Blue

BackgroundColorless

ORDERING INFORMATION

Product Code	Size	Description
24611-500	500mL	Luxol [®] Fast Blue
24176-120	120ml	Poly-Mount [®] Xylene
24176-940	940ml	Poly-Mount [®] Xylene
08381-120	120ml	Poly-Mount [®]
08381-940	940ml	Poly-Mount [®]

TO ORDER

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