P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

Luxol Fast Blue Stain Kit

Description: The Luxol Fast Blue Stain Kit is designed for staining myelin/myelinated axons and Nissil substance on formalin fixed, paraffin-embedded tissue as well as frozen tissue. This product is used for identifying the basic neuronal structure in brain or spinal cord sections.

Myelinated Fibers:	Blue
Nissil Substance:	Violet
Nerve Cells:	Violet

Uses/Limitations:
Not to be taken internally.
For In-Vitro Diagnostic use only.
Histological applications.
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile.

Control Tissue:
Cerebral Cortex
Spinal Cord

Availability/Contents:

Item #	Kit Contents	Volume	Storage
CEA030	Cresyl Echt Violet Solution	30 ml	2-8℃.
LFB060	Luxol Fast Blue Solution	60 ml	18-25℃.
LCQ060	Lithium Carbonate Solution (0.05%)	60 ml	18-25℃.
EAS060	Alcohol, Reagent (70%)	60 ml	18-25℃.

Precautions:
Avoid contact with skin and eyes.
May cause burns.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.
Use in chemical fume hood whenever possible.

Procedure (Standard):

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Prepare humidity chamber by placing filter paper or other moisture absorbent paper towel in petri dish or other appropriate container. Thoroughly wet absorbent paper with DI/Distilled water and place slide on top of wet paper.
3. Apply 8-10 drops of Luxol Fast Blue Solution to tissue section, cover chamber with lid and incubate for a minimum of 2 hours at 60℃. Note: May be left at 60℃ overnight.
4. Remove slide from incubation chamber. If Luxol Fast Blue Solution has dried, rinse with 95% Ethanol to remove crystals.
5. Rinse thoroughly in distilled water.
6. Differentiate section by applying continuous drops of Lithium Carbonate Solution (0.05%) for up to 20 seconds.
7. Continue differentiation by continuously applying drops of Alcohol, Reagent (70%) until gray-matter is colorless and white-matter remains blue.
8. Rinse slide in distilled water.

Storage: 2° C 25° C

Mixed Storage Conditions.
Separate Contents.

Doc: IFU-TemplateMixedStoragerev2

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9. Incubate slide in 4-5 drops of Cresyl Echt Violet (0.1%) for 2-5 minutes.
10. Rinse quickly in 1 change of distilled water.
11. Dehydrate quickly in 3 changes of absolute alcohol.
12. Clear as desired and mount in synthetic resin.

References:

1. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2nd Edition. Battelle Press, Columbus, OH. Page 262-264. 1980
2. Kluver, H., Barrera, E.A. A Method for the combined staining of cells and fibers in the nervous system. Journal of Neuropathology and Experimental Neurology, 1953, 12: pages 400-403.

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