Instructions For Use

LFB-IFU

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Luxol Fast Blue Solution

Description and Principle

Luxol Fast Blue Solution is a component of the Luxol Fast Blue Stain Kit (Catalog# LBC-1) and is designed for staining myelin/myelinated axons and Nissil substance on formalin fixed, paraffin-embedded tissue as well as frozen tissue. Luxol Fast Blue Solution is responsible for staining the myelinated fibers blue. This product is used for identifying the basic neuronal structure in brain or spinal cord sections.

Expected Results

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

Kit Contents / Storage

Additional Kit Reagents Sold Separately

1. Cresyl Echt Violet Solution	2-8° C
2. Luxol Fast Blue Solution	18-25°C
3. Lithium Carbonate Solution (0.05%)	18-25°C
4. Alcohol, Reagent (70%)	18-25°C

Suggested Controls *(not provided)*

Cerebral Cortex, Spinal Cord

Uses/Limitations

For In-Vitro Diagnostic use only.
Do not use if reagents become cloudy or precipitate
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile
Intended for FFPE sections cut at 5-10µm.
This procedure has not been optimized for frozen sections.
Frozen sections may require protocol modification.

Storage

Store at room temperature (18-25°C).

Safety and Precautions

Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements.

Procedure

1. Deparaffinize sections if necessary and hydrate to distilled water.

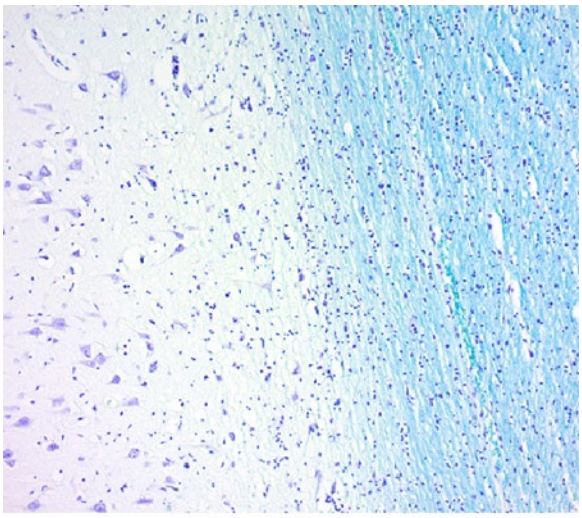
2. Pour Luxol Fast Blue Solution into a staining jar and Incubate slide for 24 hours at room temperature or 2 hours at 60°C. Solution is alcoholic and will readily evaporate at smaller volumes.

3. Rinse thoroughly in distilled water.

4. Differentiate section by dipping in Lithium Carbonate Solution (0.05%) several times (up to 20 seconds).

5. If needed, continue differentiation by repeatedly dipping in Alcohol, Reagent (70%) until gray-matter is colorless and white-matter remains blue.

6. Rinse slide in 2 changes of distilled water.



White-matter and gray-matter of Human Brain stained with Luxol Fast Blue Stain Kit

7. Incubate slide in Cresyl Echt Violet (0.1%) for 2-5 minutes.

8. Rinse quickly in 1 change of distilled water.

9. Dehydrate quickly in 3 changes of absolute alcohol.

10. 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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