

Version 4a Last updated 24 September 2025

ab150675

Luxol Fast Blue Stain (Myelin Stain)

For the histological identification of basic neuronal structures in brain or spinal cord sections.

This product is for research use only and is not intended for diagnostic use.

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1. Overview

The Luxol Fast Blue Stain (Myelin Stain)(ab150675) 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.

Staining Interpretation:

Myelinated Fibers	Blue
Nissil Substance	Violet
Nerve cells	Violet

Control Tissue:

Cerebral cortex, Spinal cord.

2. Materials Supplied and Storage

Store kit at room temperature immediately on receipt and check below for storage for individual components. Kit can be stored for 1 year from receipt, if components have not been reconstituted.

Keep away from open flame and refer to the safety datasheet.

Item	Quantity (30 mL pack size)	Quantity (100 Test/125 mL pack size)	Storage temperatur e (before prep)
Cresyl Echt Violet Solution	30 mL	125 mL	4°C
Luxol Fast Blue Solution	60 mL	125 mL	RT
Lithium Carbonate Solution (0.05%)	60 mL	500 mL	RT
Alcohol Reagent (70%)	60 mL	500 mL	RT

3. Materials Required, Not Supplied

These materials are not included in the kit, but will be required to successfully perform this assay:

- Absolute alcohol

4. General guidelines, precautions, and troubleshooting

Please observe safe laboratory practice and consult the safety datasheet.

For general guidelines, precautions, limitations on the use of our assay kits and general assay troubleshooting tips, particularly for first time users, please consult our guide:

www.abcam.com/assaykitguidelines

For typical data produced using the assay, please see the assay kit datasheet on our website.

5. Staining Protocol

- Equilibrate all materials and prepared reagents to room temperature just prior to use and gently agitate.
- 5.1** Deparaffinize sections if necessary and hydrate in distilled water.
- 5.2** Incubate slide in Luxol Fast Blue Solution for 24 hours at room temperature or 2 hours at 60°C.
- 5.3** Rinse slide thoroughly in distilled water.
- 5.4** Differentiate the section by dipping in Lithium Carbonate Solution several times (up to 20 seconds).
- 5.5** Continue differentiation by repeatedly dipping in Alcohol Reagent until gray-matter is colorless and the white-matter remains blue.
- 5.6** Rinse slide in distilled water.
- 5.7** Incubate slide in Cresyl Echt Violet for 2-5 minutes.
- 5.8** Rinse quickly in distilled water.
- 5.9** Dehydrate quickly in 3 changes of absolute alcohol.
- 5.10** Clear and mount in synthetic resin.

6. FAQs / Troubleshooting

General troubleshooting points are found at www.abcam.com/assaykitguidelines.

7. Notes

Technical Support

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