

Luxol fast blue*Staining kit for elements of nervous system***Manufacturer: Diapath S.p.A.**

Code	Tests	Reagents	Code	Packaging
		Luxol fast blue acc. Kluwer-Barrera	C049AA	1x30 ml
010226	100	Lithium Carbonate 0.005%	G063AA	1x30 ml
		Cresyl Violet acc. Kluwer-Barrera	C018AA	1x30 ml
		Activating acid buffer	G064AA	1x30 ml

Description

The kit supplies reagents for Luxol fast blue acc. Kluwer-Barrera staining protocol to highlight myelin and Nissl substance on histological sections.

Specimen and preparation kind

- Preparation: Paraffin section
- Suggested fixative: Formalin
- Control: Nervous system
- Storage temperature: +15°/+25°C
- Procedure time: 12 h + 25 min with overnight incubation
2 h 30 min with incubation at +60°C
- Critical step: Reagent temperature

Staining Protocol

Drain reagent directly on section in a way to cover it completely.
To avoid excessive drying, use an incubator wet box.

1. Deparaffinize and hydrate section to ethyl alcohol 95°
2. Cover the sections with **Luxol fast blue acc. Kluwer-Barrera** and incubate overnight at 37°C (or 2 hours at 60°C)
3. Wash in ethyl alcohol 95 until the complete crystal melting
4. Wash in distilled water
5. Cover the sections with **Lithium Carbonate 0.005%** for 30 seconds (verify at the microscope that the grey matter differentiates visually from white one), repeat again if necessary.
6. Immerse section in ethyl alcohol 70° until myelinic fibers turn blue on colorless background (verify at microscope)
7. Wash in distilled water (twice)
8. Cover the sections with 10 drops of **Cresyl Violet acc. Kluwer-Barrera** + 5 drops of **Activating acid buffer** for 10-20 minutes at 56° C
9. Ethanol 95° until Nissl substance turns pale Pink
10. Dehydrate in absolute ethyl alcohol
11. Xylen or substitutes. Mount with balsam

DIAPATH

Results

Myelin:	Blu turquoise
Neurons and glial nuclei:	Pink to violet
Nissl substance:	Pale pink



Quality control

The products and the raw materials are entered and constantly monitored by computer systems that allow traceability between batch number of each single product and batches of their raw materials.

Instructions of use

To avoid mistakes, the product should be used by qualified and trained staff. Professional use product. The guidelines concerning safety on the workplace must be applied according to current regulations. The tools used for diagnosis must be suitable for diagnostic use in laboratory. The diagnosis should be performed only by authorized, trained and competent staff. Control sections should be used during each test to avoid incorrect results.

Storage

Store the product according to the specifications listed on the label. The product, if opportunely stored and integrally packed, is stable up to the expiry date reported on the label. Do not use after expiration date.

If the reagent is not stored as recommended, its performance may change and must be validated by the user. After opening, the reagent is stable up to expiration date but only if stored in its container and in accordance with the specifications listed on the label. It is recommended to close the container tightly after the use.

Disposal instruction

The expired and/or unused product must be disposed according to local waste regulations, based on danger classification on the label and after possible contaminations evaluation. In some cases it may be necessary an analytical evaluation to determine the correct waste classification and the danger features.

Labeling legend



Batch n.



Manufacturer



Storage temperature limits



Product code



Expiry date



In vitro diagnostic medical device



Photosensitive

For more information see the MSDS.