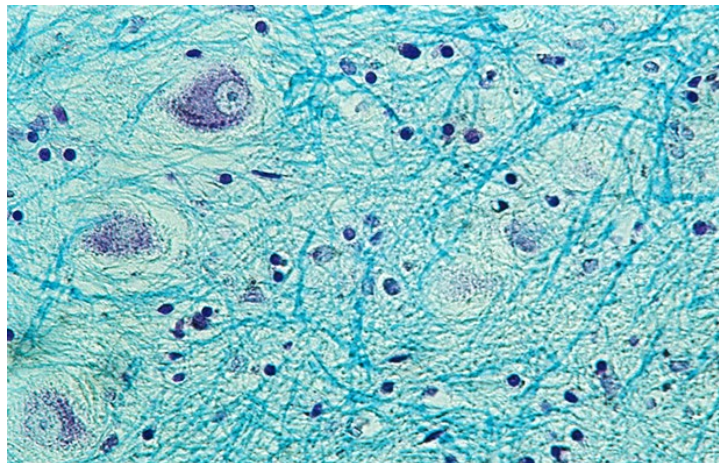




# LUXOL FAST BLUE

Klüver Barrera



Brain

CODE	DESCRIPTION	TESTS NUMBER
04-200812	Luxol fast blue Klüver Barrera	100 test



In Vitro Diagnostic – medical device  
IVD in **Class A**, Reg. UE 2017/746  
Basic UDI: 080339762W01030799Y5  
UDI-DI: 08033976231460



Manufacturer: Bio-Optica Milano S.p.A.

Product for the preparation of cyto-histological samples for optical microscopy.  
To show myelin and phospholipids in histologic sections.

### PRINCIPLE

Luxol fast blue dye is a derivative of tetrabenzotetra- porphyrin. Kluver has demonstrated porphyrins have a selective affinity for myelin (see references). Luxol fast blue's affinity for central nervous system is usually ascribed to the bonds it forms with phospholipidic structures such as lecithin and sphingomyelin.

### METHOD

- 1) Deparaffinise and bring section to ethanol 95°.
- 2) Prepare the incubation box by adding some drops of distilled water on filter paper in Petri dish and lay down the slide; put on the slide 10 drops of reagent A, close the incubation box and incubate at 56°C overnight in oven.
- 3) Extract the slide from oven and wash it with ethanol 95° (crystalline residues of reagent A should melt).
- 4) Wash in distilled water.
- 5) Put on the section 10 drops of reagent B: leave to act 30 seconds.
- 6) Differentiate in ethanol 70° until myelinic fibres become blue on colourless background (Sometimes differentiation can be difficult; repeat the step 5 for 30 seconds and put the slide again in ethanol 70°)
- 7) Wash well in distilled water (at least 2 times).
- 8) Prepare the incubation box again and introduce the slide; put on the section 10 drops of reagent C and 5 drops of reagent D: close the incubate box and incubate for 20 minutes at 56°C in oven.
- 9) Differentiate in ethanol 95° until Nissl substance results pale pink.
- 10) Dehydrate in absolute ethanol, clear in xylene and mount.



*The picture is for illustrative purposes only*

### Technical details

Method specifications	Procedure time	20 minutes + overnight		
	Complementary equipment	Not requested		
	Results	Myelin:	Turquoise blue	
		Neurons and glial nuclei:	Pink - violet	
Nissl substance:		Pale pink		
Components	A) Luxol fast blue alcoholic solution	30 ml		
	B) Basic differentiating buffer	30 ml		
	C) Cresyl violet aqueous solution	30 ml		
	D) Acid activation buffer	30 ml		
Storage	Storage	Store the preparation at 15 - 25°C. Keep the containers tightly closed.		
	Storage temperature	15 - 25°C		
	Stability	After the first opening, the product is reusable until the expiry date, if correctly stored.		
	Validity	2 years		
Warning	Product classification	<p>The product is intended for professional laboratory use for healthcare professionals.</p> <p>Carefully read the information on the label (danger symbols, risk and safety phrases) and always consult the safety data sheet. Do not use if the primary container is damaged.</p> <p>In the event of a serious accident, we recommended that you immediately inform Bio-Optica Milano S.p.A and the competent authorities.</p>		
	Disposal	Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.		

REVISION n°	REASON	REVISION DATE
001	Regulation adjustment UE 2017/746 - IVDR	16/05/2022