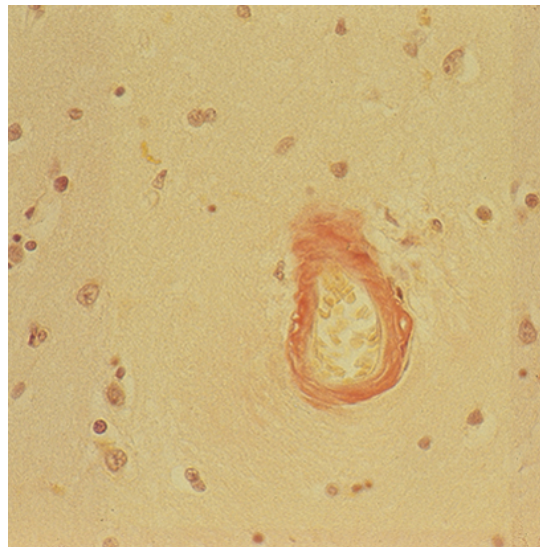


CONGO RED

Highman – kit for AUS240



Blood vessel

CODE	DESCRIPTION	TESTS NUMBER
04-210822A	Congo red, kit for AUS240	250 test



In Vitro Diagnostic – medical device



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

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Rev. 00

Product for the preparation of cyto-histological samples for optical microscopy.
Method to show amyloid in tissue sections.

PRINCIPLE

This is an empirical method. It is still doubtful whether the formation of the link between amyloid and dye is due to proteins or to glycan in amyloid, or even to both. On the contrary, it is certain that amyloid stained with Congo red displays a marked birefringence in polarized light. From this anisotropy, it has been inferred that amyloid may have an intrinsic molecular organization that is emphasized by Congo red. According to Virchow and Puchtler, amyloid is the only component in human tissues whose histochemical characteristics can be compared to those of cellulose; therefore, it has been supposed that dye and amyloid are linked by hydrogen bonds, just as it happens with the link between cellulose and Congo red.

METHOD

- 1) Bring section to distilled water
- 2) Reagent A: 15 minutes
- 3) Distilled water: 30 seconds
- 4) Reagent B: 30 seconds
- 5) Running tap water: 5 minutes
- 6) Reagent C: 2 minutes
- 7) Reagent D: 5 minutes
- 8) Running tap water: 5 minutes
- 9) Dehydrate through ascending alcohols, clear and mount.

Technical details

Method specifications	Procedure time	35 minutes	
	Complementary equipment	Not requested	
	Results	Amyloid:	Brick red, birefringent in polarized light
Nuclei:		Blue	
Components	A) Congo red solution	250 ml	
	B) Alkaline differentiation buffer	250 ml	
	C) Phosphate buffer solution	250 ml	
	D) Mayer's Hematoxylin	250 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 usable until the expiry date, if correctly stored.	
	Validity	2 years	

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Warning	Product classification	<p>The product must be used exclusively by specialized technical operators. The product is classified as hazardous.</p> <p>Read with attention the information written on the label (dangerous symbols, risks and safety phrases). Consult always the safety data sheet where the information about the risks of the preparation, precautionary measures during use, first aid and disposal are available.</p> <p>Do not use if primary packaging is damaged.</p>
	Disposal	<p>Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.</p>

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