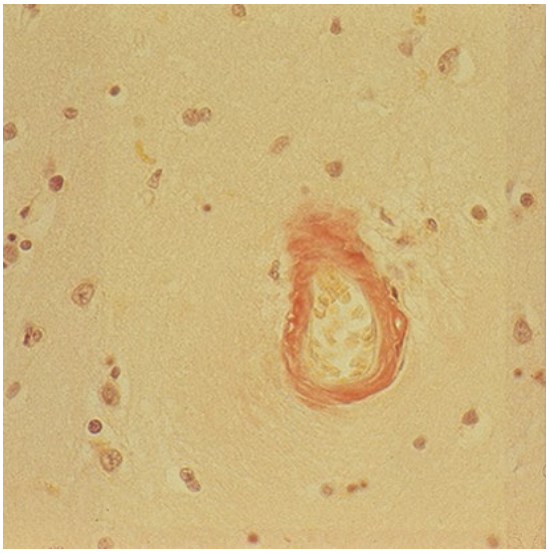
Bio - Optica
Improving Pathology

Data Sheet

CE

CONGO RED

Highman



Blood vessel

CODE	DESCRIPTION	TESTS NUMBER
04-210822	Congo red	100 test

IVD

In Vitro Diagnostic – medical device
IVD in **Class A**, Reg. UE 2017/746
UDI-DI: 08033976231477
Basic UDI: 080339762W01030799Y5

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

Bio-Optica Milano S.p.A. Via San Faustino 58 - 20134 Milano
Phone +39 02.21.27.13.1 - Fax Italia +39 02.21.53.000 - Fax Export +39 02.21.54.155
www.bio-optica.it – info@bio-optica.it – claims@bio-optica.it

Bio-Optica
Improving Pathology

Data Sheet

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 Wirchow 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) Put on the section 10 drops of reagent A: leave to act 15 minutes.
3) Rinse in distilled water.
4) Put on the section 10 drops of reagent B: leave to act 30 seconds.
5) Wash 5 minutes in running tap water.
6) Put on the section 10 drops of reagent C: leave to act 2 minutes.
7) Put on the section 10 drops of reagent D: leave to act 5 minutes.
8) Blue in running tap water 5 minutes.
9) Dehydrate through ascending alcohols, clear in xylene and mount.

The picture is for illustrative purposes only

Bio-Optica
Improving Pathology

Data Sheet

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	30 ml	
	B) Alkaline differentiation buffer	30 ml	
	C) Phosphate buffer solution	30 ml	
	D) Mayer's Hematoxylin	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	The product is intended for professional laboratory use for healthcare professionals. 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. In the event of a serious accident, we recommended that you immediately inform Bio-Optica Milano S.p.A and the competent authorities.	
	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

Bio-Optica Milano S.p.A. Via San Faustino 58 - 20134 Milano
Phone +39 02.21.27.13.1 - Fax Italia +39 02.21.53.000 - Fax Export +39 02.21.54.155
www.bio-optica.it – info@bio-optica.it – claims@bio-optica.it