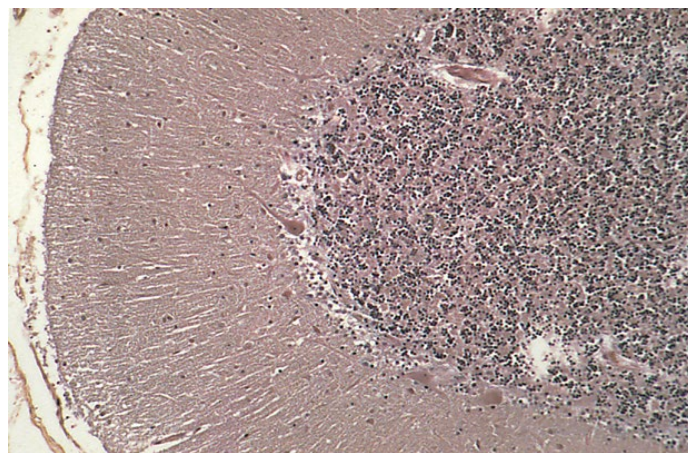




P.T.A.H.

Phosphotungstic acid hematoxylin



Cerebellum

CODE	DESCRIPTION	TESTS NUMBER
04-060802	P.T.A.H. Phosphotungstic acid hematoxylin	100 test



In Vitro Diagnostic – medical device
EMDN: W01030799
IVD in **Class A**, Reg. UE 2017/746
Basic UDI: 080339762W01030799Y5
UDI-DI: 08033976230937



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

Product for the preparation of cyto-histological samples for optical microscopy.

This method was initially proposed to stain neuroglia but at present, it is used especially to differentiate between smooth muscular tissue and striated muscular tissue, since it stains isotropic bands of skeletal muscle's myofibrils. Moreover, it is one of the recommended methods to show fibrin.

PRINCIPLE

Phosphotungstic acid acts as an acid carrier for the dye; it attaches to fibrin and to tissue elements with both chemical and physical links. Unlike most hematoxylin, this is a "progressive" method.

METHOD

- 1) Bring sections to distilled water.
- 2) Put on the section 5 drops of reagent A, add 5 drops of reagent B: leave to act 5 minutes.
- 3) Wash in distilled water.
- 4) Put on the section 10 drops of reagent C: leave to act 5 minutes.
- 5) Wash in distilled water.
- 6) Introduce half contents of reagent D into one of the two empty containers enclosed in the packaging. Immerse the section and leave to act overnight.
- 7) Rinse quickly in distilled water (3-4 seconds).
- 8) Dehydrate rapidly through ascending alcohols, stop for 1 minute in the last absolute ethanol. Clear in xylene and mount.



The picture is for illustrative purposes only

Technical details

Method specifications	Procedure time	13 minutes + overnight	
	Complementary equipment	Not requested	
	Results	Nuclei, fibrins (for a great part) myofibrils, astrocytes, some elastic fibres, neuroglia, myelin fibres:	Dark blue
		Collagen, bone matrix, cartilage:	Brick red in various tonalities
Components	A) Potassium permanganate solution	18 ml	
	B) Acid buffer	18 ml	
	C) Oxalic acid solution	30 ml	
	D) P.T.A.H. according to Mallory	80 ml	
Storage	Storage	Store the preparation at room temperature. 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
002	Variation in point 6 of the method	16/01/2024