



Periodic acid 1% solution

Method for PAS



In-vitro diagnostic medical device

BASIC UDI: 080339762W01030799Y5

IVD in **Classe A**, Reg. UE 2017/746

Catalog number	Unit size	UDI-DI
05-M05030	500 ml	08033976234652

Packaging Primary container: white bottle in High Density Polyethylene (HDPE). Useful capacity 500 ml. HDPE cap.
Tamper evident cap.

Wear, water, alcohol and solvents resistant PVC label. Scratchproof ink resistant to water and alcohol.

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

Application Reagent used as oxidant in the PAS method.

Principle In the PAS method, to show the neutral mucins, the periodic acid oxidizes selectively groups: 1.2 - Glycolic; primary aminic (or 1-hydroxy-2-aminic); secondary aminic (or 1-hydroxy-2-alkylaminic) and 1- hydroxy-2-ketonic. During oxidating process the links between carbon atoms in 1,2 position break and consequently aldehydic groups are formed. In the following reaction, sulphurous fuchsin in Schiff reagent changes these 2 contiguous aldehydic groups into a insoluble stained compound.

Method

- 1) Sections to water
- 2) Periodic acid solution, 10 minutes
- 3) Wash in distilled water
- 4) Schiff reagent, 20 minutes
- 5) Wash in distilled water
- 6) Mayer's Hemalum, 3 minutes
- 7) Blue in tap water, 5 minutes
- 8) Dehydrate in alcohol
- 9) Xylene and mount

Results Positive PAS substances : red magenta
Nuclei : blue

Components

Components	CAS	CE	Index
Periodic acid	10450-60-9	2339370	-
Deionized water			

Warning and precaution	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.
Storage	Store the preparation at 2-8°C. Keep the containers tightly closed.
Stability	After the first opening, the product is reusable until the expiry date, if correctly stored. Product validity: 1 year.
Disposal	Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.
References	

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