

Periodic acid 1% solution method for PAS

IVD In-vitro diagnostic medical device **CE**

CND Code: W01030799

Catalog number	Unit size
05-M05030	500 ml

Packaging - 05-M05030
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 must be used exclusively by specialized technical operators. Carefully read the information on the classification of dangerous substances on the label. Always refer to the safety data sheet where are available the information on the risks presented by the mixture, the precautionary measures during use, the measures first aid and the intervention in the event of accidental release.

Do not use if the primary container is damaged.

Storage Store the preparation at 2-8°C. Keep the containers tightly closed.

Stability After the first opening, the product is usable until the expiry date, if correctly stored. Product validity: 1 year.

Disposal Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.

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Page 1 di 1