

**ALCIAN BLUE pH 2,5 P.A.S.
04 – 163802/L**

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

CND Code: W01030799

number of tests /
 procedure time 1 hour 25 minutes
 product validity 1 year
 storage temperature 2 - 8°C
 complementary equipment not requested

Expected aim	Product for the preparation of cyto-histological samples for optical microscopy.
Application	Integrated method to show acid mucins, neutral mucins and carbohydrates in tissue sections.
Principle	In the first part of the procedure, sections are treated with Alcian blue and acid mucins are stained. Acid mucins and dye form the insoluble compound "Monastral blue" and therefore will not be affected by the second part of the procedure, when PAS reaction will stain only neutral mucins and glycogen. (Glycogen will be stained only if section has not been previously treated with diastase enzymatic digestion).
Method	<ol style="list-style-type: none"> 1) Bring sections to distilled water. 2) Immerse in reagent A 30 minutes. 3) Drain without rinsing sections and immerse in reagent B 10 minutes. 4) Wash in running tap water for 5 minutes; then in distilled water for 2 minutes. 5) Immerse sections in reagent C 10 minutes. 6) Wash in distilled water. 7) Immerse in reagent D 20 minutes. 8) Wash in distilled water. 9) Immerse sections in reagent E 2 minutes. 10) Drain without rinsing sections and immerse in reagent F 3 minutes. 11) Wash in distilled water. 12) Immerse sections in reagent G 2 minutes. 13) Wash in running tap water for 5 minutes. 14) Dehydrate through ascending alcohols. Clear in xylene and mount.
Results	PAS positive substances Magenta red Acid mucopolysaccharides Turquoise-blue Some epithelial mucins and cartilage From purple to dark blue
Reagents	A) Alcian Blue pH 2,5 solution according to Mowry 1000 ml B) Sodium tetraborate solution 1000 ml C) Periodic acid solution 1000 ml D) Schiff's Reagent according to Hotchkiss - Mc Manus 1000 ml E) Potassium metabisulfite solution 1000 ml F) Fixative solution 1000 ml G) Mayer's Hemalum 1000 ml
Warning and precaution	The colour of the reagent D may be pink, but it does not affect the functionality. The product must be used exclusively by specialized technical operators. The product is classified as hazardous. 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. Do not use if primary packaging 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.
Disposal	Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.
References	<ul style="list-style-type: none">• Armed Forces Institute of Pathology: Laboratory Methods in Histotechnology, Washington D.C.; 1994.• Mowry RW. Alcian blue-periodic acid Schiff stain for carbohydrates Dept of Path Univ. of Alabama Med. Center 1956; Birmingham.• Spicer SS, Warren L. The histochemistry of sialic acid containing mucoproteins, J Histochem Cytochem 1960, 8: 135-137.

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