

Alcian Blue pH 2.5 - PAS, Kit

Reference: AP0382



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INTENDED USE AND PRESENTATION:

For *in vitro* diagnostic use.

AP0382. 100 Tests.

APPLICATIONS:

The Alcian Blue pH 2.5 - PAS kit is intended for use in the simultaneous histological visualization of sulfated and carboxylated acid mucopolysaccharides, sulfated and carboxylated sialomucins (glycoproteins) and neutral mucins.

The interpretation of the stain results is the full responsibility of the user. Any experimental result must be confirmed by a medically established diagnostic product or procedure.

PRODUCT COMPOSITION:

The Alcian Blue pH 2.5 - PAS kit is composed by:

Reagent	Name	Volume	Storage
A	Alcian blue pH 2.5 solution	30 mL	15-25 °C
B	Periodic acid solution	30 mL	2-8 °C
C	Schiff's solution	30 mL	2-8 °C
D	Sulfuric acid solution	30 mL	15-25 °C

METHODS AND PROCEDURE:

Principles of the method: 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).

Specimen: Paraffin-embedded tissue samples should be used.

Procedure time: 55 minutes.

Staining procedure:

- 1) Deparaffinize and hydrate for paraffin section.
- 2) Put the crystal in distilled water.
- 3) Set on the section 2-5 drops of **Reagent A** and leave to act 30 minutes.
- 4) Wash for 2 minutes in running tap water and rinse in distilled water.
- 5) Put 2-5 drops of **Reagent B** and leave to act 5 minutes.
- 6) Wash for 2 minutes in running tap water and rinse in distilled water.
- 7) Put 2-5 drops of **Reagent C** and leave to act 15 minutes.
- 8) Wash for 2 minutes in running tap water and rinse in distilled water.
- 9) Put 2-5 drops of **Reagent D** and leave to act 10 seconds.
- 10) Wash for 2 minutes in running tap water and rinse in distilled water.
- 11) Dehydrate, clear in xylene and mount the preparation.

See our web site at www.gennova-europe.com for detailed protocols ancillary reagents and support products.

EXPECTED RESULTS:

During the reaction of the different solutions of the kit with the tissue sections, resulting in the following stains:

Acidic mucins	Blue - Purple
Neutral mucins	Magenta
Mixtures of acidic and neutral mucins	Blue - Purple depending on dominant entity

REQUIRED MATERIALS BUT NOT SUPPLIED:

All reagents, materials, and laboratory equipment for this procedure are not provided with this kit. This includes adhesive slides and cover slips, positive and negative control tissues, xylene or adequate substitute, ethanol, distilled H₂O, pipettes, Coplin jars, glass jars, moist chamber, histological baths, mounting materials, and microscope.

Buffered solutions for and other auxiliary reagents are available from Gennova Scientific.

STORAGE AND STABILITY:

After reception, storage the reagent according to temperature indicated on product label until the expiration date printed. Note that some reagents need to be storage 2-8 °C and other to room temperature. Do not use after the expiration date. Keep the containers tightly closed. After the first opening, the product is usable until the expiry date stated on label of intact product. Waste from solutions



Catalog number



Batch code



In Vitro diagnostic medical device



Temperature limitation



Expiration date



Test number



Manufacturer



See instruction for use



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must be disposed under the procedure of hazardous substance. If the product is stored under different conditions from those stipulated in these technical indications, the new conditions must be verified by the user.

Gennova Scientific guarantees that the product will maintain all of the described characteristics from the production date until the expiration date, as long as the product is stored and used as recommended. No other guarantees are provided. Under no circumstances is Gennova Scientific obliged to cover damages caused by use of this reagent.

TROUBLESHOOTING:

If unusual staining is observed or any other deviations from the expected results, please read these instructions carefully, and if this does not solve the problem, please contact Gennova Scientific's technical support department or your local distributor.

PRECAUTIONS:

Use only by qualified personnel. Read with attention the information written on the label (dangerous symbols, risks and safety phrases). Consult always the safety data sheet (MSDS) where the information about the risks of the preparation, precautionary measures during use, first aid and disposal are available. Use proper protective equipment in order to avoid contact with reagents and samples in the eyes, skin, and mucosal tissues. MSDS is available upon request.

PERFORMANCE CHARACTERISTICS:

Gennova Scientific has performed studies to evaluate the functioning of this product, concluding that the product is both specific and sensitive for recommended use.

BIBLIOGRAPHY:

Lillie, R.D. 1977, H.J. Conn's Biological Stains, 9th Edition. Williams & Wilkins, Baltimore. Pages 452-455.
Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2nd Edition. Battelle Press, Columbus, OH. Pages 172-173.
Churukian, C.J., 1989, Manual of Special Stains Laboratory, 4th Edition. University of Rochester, Rochester, New York. Pages 55-56.
Carson, F.L., 1996, Histotechnology; A Self-Instructional Text, 2nd Edition. ASCP Press, Chicago, IL. Pages 117-121.

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