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TECHNICAL DATA SHEET 886

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Alcian Blue/PAS Kit

DESCRIPTION

This is a combined method utilizing the properties of both PAS and Alcian blue pH 2.5 methods to demonstrate the full complement of tissue proteoglycans. The combined stain method stains all the acidic mucins with Alcian blue, those remaining acidic mucins which are also PAS positive will be chemically blocked and will not react further during the technique. Those neutral mucins which are solely PAS positive will subsequently be demonstrated in a contrasting manner. Where mixtures occur, the resultant color will depend upon the dominant moiety.

KIT CONTAINS

500ml each of the following:
Alcian Blue, 1% in 3% Acetic Acid
Periodic Acid 0.5%
Harris Hematoxylin
Scott's Bluing
Schiff's Reagent

METHOD

1. Bring sections to distilled water
2. Stain with Alcian blue for 15 minutes
3. Wash well in running tap water for 2 minutes
4. Rinse in distilled water
5. Treat with periodic acid for 5 minutes
6. Wash well in distilled water
7. Stain with Schiff's reagent for 10 minutes
8. Wash well in running tap water for 5 minutes
9. Stain nuclei with hematoxylin for 1 minute
10. Wash in running tap water for 2 minutes
11. Differentiate with acid alcohol (see tech notes #1)
12. Wash and blue nuclei in Scott's tap water
13. Wash in water
14. Dehydrate, clear and mount

RESULTS

Acidic Mucins	Blue
Neutral Mucins	Magenta
Mixtures of above	Blue/Purple
Nuclei	Deep Blue

TECHNICAL NOTES

1. Make the following acid alcohol differentiation solution fresh:
 - Acid alcohol-3% hydrochloric acid in 95% ethyl alcohol
 - Absolute ethyl alcohol 95mL
 - Distilled water 2mL
 - Concentrated hydrochloric acid 3mL
2. Diastase pre-treatment may be used to eliminate the presence of glycogen, prior to staining in Alcian blue
3. Fixation not critical, however fixation by aldehyde addition, eg glutaraldehyde, will produce non specific general PAS positivity

ORDERING INFORMATION

CAT. #	DESCRIPTION	SIZE
25086-1	Alcian Blue/PAS Kit	1 Kit

TO ORDER

In The U.S. Call: 1(800) 523-2575 • (215) 343-6484
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