

Azan trichrome technical information
 Technical card code 14-104
 Product code 14-104
 Pack 1kit. Number of tests 100 or on request
 Stability of product properly conserved at 15-20°C 24 months
 CND code W01030799

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in case of emergency UE number		112
in case of emergency UK number		999
En cas d'urgence Suisse		145

Application

Recommended method for connective tissue, especially to show muscle fibers, glial fibers, collagen, reticulum, kidney glomerular stroma, erythrocytes and nuclear chromatin in histologic sections.

Principle

In this method two acid dyes are used: azocarmine and aniline blue. A cytologic stain with azocarmine is combined with a counterstain with aniline blue, after mordanting with phosphotungstic acid.

To obtain good results, it is necessary to over stain with azocarmine, then slowly differentiate with aniline-alcohol to prevent counterstain from covering stained muscle, collagen etc.

Method

- 1) Bring sections to distilled water.
- 2) Pour reagent (1) in a coplin jar and incubate at 56° C for 45 minutes. Allow to cool for 10 minutes at room temperature. Recover the dye in the bottle (1) without filtering.
- 3) Wash in distilled water.
- 4) Put on the section 10 drop of reagent (2), leave to act 1 minute.
- 5) Drain the slide without washing and put on the section 10 drops of reagent (3) leave to act 1 minute.
- 6) Pour reagent (4) in a coplin jar: immerse section for 1 hour; re-filter and recover the reagent into bottle 4.
- 7) Repeat step 6 with the reagent (5) leave to act 1 hour.
- 8) Rinse in ethylic alcohol 95°.
- 9) Dehydrate in ascending alcohols
- 10) Clear in xylene
- 11) Mount with DdMount.

Results

Collagen, reticulum, basophil cells granules of hypophysis, juxtaglomerular granules and kidney glomerular stroma: deep blue
 Neuroglia: reddish
 Muscle: orange
 Chromatin, erythrocytes and acidophil granules of hypophysis: red
 Cytoplasmatic granules of hypophysis delta cells: light blue

Reagents

1 - Azocarmine Heidenhain	30 ml
2 - Aniline-alcohol solution	30 ml
3 - Acid alcohol solution	30 ml
4 - Phosphowolframic acid solution	30 ml
5 - Mallory polychrome solution	30 ml

References

Mallory FB. *Pathological technique*. Philadelphia, WB Saunders Company 1938; pp. 72, 76-88, 111-116, 152-177, 193-194, 206-212, 281. McGregor L. *The finer histology of the normal glomerulus*. Am J Path 1929; 5: 545-558.

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* Risk and Safety Statements outside the EU.

The eosin solution in alcohol is flammable and harmful. Harmful by inhalation, in contact with skin or if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with the skin or by ingestion. Irritating to eyes, respiratory system and skin. Keep away from sources of ignition - No smoking. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical attention immediately (show the label where possible). Target organs: eyes and nerves. Eosin in aqueous solution. Caution: substance not yet fully tested. Avoid contact and inhalation of the solution of Harris haematoxylin. Organs: heart and nerves. Solutions based hemallum are harmful. Harmful if swallowed. Irritating to eyes, respiratory system and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention. Wear suitable protective clothing. Organs affected: liver and kidneys. In case of accident or if you feel unwell, seek medical attention immediately (show the label where possible).

* Risk and Safety Statements (U.E.)

The eosin solution in alcohol is highly flammable and harmful. Highly flammable. Harmful by inhalation, in contact with skin or if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with the skin or by ingestion. Keep away from sources of ignition - No smoking. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical attention immediately (show the label where possible).

Eosin in aqueous solution. Caution: Substance not yet fully tested. Solution of hemallum. Do not breathe vapors. Avoid contact with skin and eyes. Gill haematoxylin Solutions are harmful. Harmful if swallowed. Irritating to eyes, respiratory system and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention. Wear suitable protective clothing.

Endnotes

1 The timing suggested in the leaflet are approximate and may vary according to your specific needs. If they are used intensively, for staining solutions may lose their dyes, so it is necessary to extend the time of staining solutions, or replace with new products.

2. Include positive control slides in each session.

3. Some hydraulic systems deliver acidic water, unsuitable for use for the part of the procedure for the blue coloration. If tap water is acidic, instead using a dilute alkaline solution, for example, water buffered by Scott.

4. The presence of purple or red-brown nuclei a blue color indicates unsatisfactory.

5. If you over-eosin staining, nuclear staining may be masked. If done correctly, with eosin staining shows a three-tone effect. To increase the differentiation of eosin, extend the time of immersion in alcohol, or use a first alcohol with a higher water content. You can adjust the times of immersion in alcohol to obtain an adequate eosin staining.

6. We do not recommend the addition of stock solution in the working solutions of haematoxylin and eosin.

7. Avoid excessive drag (carryover) of water solutions in alcoholic eosin.

8. The data generated by this procedure are to be used only to support the diagnosis and should be evaluated in conjunction with other tests and diagnostic data

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