

IVD dispositivo medico-diagnostico in vitro

Hyaluronidase from bovine testes technical information
Technical card code 14-106
Product code 14-106
Pack 1kit. Number of tests 100 or on request
Stability of product properly conserved at 0°C 24 months
CND code W01030799

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For emergency contact your nearest anti-poison unit.

Application

Digestion of histological sections by means of hyaluronidase is apt to remove the following complex carbohydrates: hyaluronic acid, chondroitin sulfate (a and b).

Method

- 1) Get two serial sections to distilled water. (Specimen and control)
- 2) Prepare hyaluronidase solution.
Mix 0,05 mg of hyaluronidase into PBS solution (solution 1 - 100 ml), (we advise to put aside a portion of buffer and use it to wash the hyaluronidase bottle once it has been emptied).
Shake well until complete dissolution.
Transfer this solution in a coplin jar and introduce the specimen.
- 3) Transfer the whole content in a coplin jar. Introduce the control section.
- 4) Incubate both sections for 1 hour at 37°C.
- 5) Wash both slides in running tap water for 5 minutes.
- 6) Stain with alcian blue.

Results

Unsuccessful staining with alcian blue in specimen section is connected with the presence of hyaluronic acid or chondroitin sulfate.

Reagents

| | |
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| 1 - Phosphate buffer solution | 2x100 ml |
| Hyaluronidase from bovine testes type I-S, lyophilized powder, 400-1000 units/mg solid | 0,1 mg |
| Alcian blue pH 1 solution | 30 ml |

References

Carleton's histological technique. Fourth edition Drury e Wallington, Oxford.
Laboratory methods in histotechnology, armed forces institutes of pathology, Washington d.c. 1994.

* Technical's note: staining time vary according to age, types of solutions, thickness of sections, et. When Gill (code 09-178) modified solution is used, get the best result, staining time (maximum 1-5 minutes), for best change in color, wash quickly in tap water, and then in Scott acidulated solution, (code 00-136). For sections fixed in Bouin, we recommend the use of haematoxylin modified acid AB (code 09-183). Please note the alcoholic loses eosin stain with the use, of the days are stretched over time colouring. If you are using purified eosin, check the time, and possibly diluted in ethyl alcohol 96°C, if the cytoplasmic staining was too strong. Before use, filter the following solutions; alcoholic eosin, eosin phloxine; Harris haematoxylin, Gill's haematoxylin. The acidified aqueous solution of eosin is prepared by slowly adding glacial acetic acid.

* 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

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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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