

Use

Demonstration of Collagen, Fibrin and striated muscle.

Contents

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| 1 - PTAH Reagent | 2 - Thiosulphate reagent |
| 3 - Iodine reagent stabilised | 4 - Staining jars & technical leaflet. |

Storage & Stability

Store all reagents at room temperature (16-26°C).

Additional Reagents Required

Ethanol (IMS 99% and dilutions)

Xylene

Safety Data Section

Reagent components in this kit are for 'In-Vitro' diagnostic use only. No liability will be accepted for their mis-use. Standard precautions in handling laboratory reagents should be followed. Avoid breathing vapours, use in well ventilated area or under fume hood. Do not consume. Wear suitable face / body protection when in use.

H302+303+313 Maybe Harmful if swallowed, enters airways or by skin contact.

H320 Causes eye irritation.

P260+262 Do not breathe fumes / vapours. Do not get into eyes, on skin or clothing.

IF SWALLOWED – rinse mouth with water, see urgent medical attention.

IF ON SKIN OR IN EYES – clean skin with soap & water and rinse eyes with eye bath.

IF INHALED – move to clear air zone.

In all cases – seek medical attention if you feel unwell or symptoms persist.

PTAH maybe HARMFUL by skin /eye contact and ingestion. It may cause irritation to skin and eyes etc. Contains dilute Phosphotungstic acid >2% along with dyestuffs.

Iodine reagent maybe Harmful by inhalation, in contact with skin and if swallowed. Avoid contact.

Thiosulphate reagent does not pose any real risk to Health and Safety when in normal use.

Waste disposal. P501

Haematoxylin solution can be diluted to public sewer using large volumes of water.

Iodine mordant and Sodium Thiosulphate can be diluted to public sewer with large volume of water.

Dispose of containers, carton to recycling centre.

Specimen Collection.

Sections fixed in 10% neutral buffered formalin and cut at 4-6 microns.

All tissue samples should be considered potentially infectious material. Take appropriate precautions.

REAGENT PREPARATION AND SET-UP

Reagent bottles are fitted with twist-cap dispenser nozzles.

Turn top section of cap anti-clockwise (direction is shown on cap), partial turn will allow dropwise dispensing and further turning will allow full flow of reagent if required. Turn fully in opposite direction to close.

Fill a staining jar with each of the three reagents provided.

Technique

- 1 - Bring sections through xylene and alcohols to water. Rinse in deionised water.
- 2 - Place slides in staining jar containing the Iodine reagent.
- 3 - Close lid on staining jar and stand upright.
- 4 - Leave in Iodine reagent for 20 minutes.
- 5 - Transfer slides to Thiosulphate reagent.
- 6 - Leave in Thiosulphate for 1 minute.
- 7 - Pour off thiosulphate reagent and wash slides in running water in the staining jar. (It is very important to ensure complete removal of the Thiosulphate reagent from the sections as the slightest amount remaining will interfere with PTAH staining).
- 8 - Rinse for 5 minutes in gently running water.
- 9 - Transfer slides to staining jar containing PTAH stain.
- 10 - Close lid on staining jar and place upright in a small beaker of water in a shallow waterbath at approx 56C for 2 hours.
- 11 - Remove jar from waterbath, pour off reagent and rinse slides quickly in deionised water.

- 12 - Dehydrate through alcohols quickly.
- 13 - Clear in xylene .
- 14 - Coverslip with resinous mounting media (DPX or similar)
- 15 - Rinse staining jars and return to kit for re-use.

Results.

Striated muscle, smooth muscle, fibrin, nuclei - Blue
Elastin fibres - Dark Blue
Collagen, reticulum, basement membrane, amyloid - Red

Unsatisfactory performance

As part of our duty to monitor product performance and our policy of continual improvement. Please report to us any unsatisfactory performance you may experience with this product. If any reagent degrades before expiry of shelf life we will replace that reagent free of charge. GCC Diagnostics guarantees the quality of this product, the user should however determine the suitability of this product for their intended use.

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Revision June 2011



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