S0100 Auramine differentiator GCC Diagnostics

Auramine differentiator / decolouriser is used in the fluorescence technique for staining acid fast bacteria. It is used to decolourise the tissue or smear on the slide after auramine staining to clear the background and to allow the background counterstain to be applied.

Specification:
Contains acid / alcohol mixture with inorganic additives and stablisers. Ready to use.

General Method (single slide) :

Prepare a 3-4sq cm thin smear with as little mechanical manipulation as possible. Excessive movement may cause damage to bacterial cells and loss of acid fastness. Heat fix by passing the slide, smear side up, through a bunsen flame 5-6 times. For sections, heat fix as for smears but treat with 10% formaldehyde for 10 minutes after, rinse well before proceeding.

1. Working in a fume hood (**Phenol fumes are released - TOXIC**) .
COLD: Flood slide with Auramine phenol reagent, leave to stain for 15-20 minutes. do not allow to dry out.
HOT: Stain with Auramine phenol for 5-10 minutes in Colpin jar at 60 Deg Celcius.

2. Rinse briefly in tap water for 5-10 seconds.

3. Decolourise by running the TB-Differentiator solution over the smear. The decolouration time will vary with the thickness of the smear/ tissue, generally 1 minutes for thin smears, up to 2-3
minutes for thick smears / sections. After decolourisation rinse briefly in tap water.

4. Flood slides with permanganate reagent for 2-3 minutes.

5. Rinse briefly in tap water and examineby fluorescence microscopy.
1 – Cover fresh thin dry blood smear with 1-1.5 ml of stain for 2 minutes to allow for fixation .
2 – Add to the stain 1.5-2.0 ml of pH 6.80 phosphate buffer (Code: B010) and mix carefully on the slide. Allow slide to stain for 5 minutes.
3 – Rinse slide for 30secs to 1 minute in pH 6.80 buffer until smear is pink.
4 – Blot and air dry.
5 – Examine under oil immersion.

Storage:
Store reagent at cool room temperature in darkened cupboard away from sources of ignition.

Health & Safety:

Contains Methyl alcohol, which is Highly Flammable and Toxic by inhalation and ingestion. Long term exposure may cause blindness.. Do not consume. Avoid sources of ignition when using. Long term exposure may cause blindness. If ingested seek immediate medical attention on what treatment is appropriate. Wash with soap and water in contact with skin. If in contact with eyes bathe eyes with eye-bath for 5 minutes.Also contains mineral acid < 3%. May causer irritaion / burns to eyes and skin. Seek medical attention if soreness persists. Wear suitable eye, face and body protection when using**.** Use in a suitably ventilated area or under a ventilated hood.. This product is for “In-vitro diagnostic use only “. Standard precautions for handling laboratory reagents should be followed when usind this product. R: 11-22-23-25-40 S: 7-16-24-25-26-28-45

Waste disposal :

This product is flammable & toxic. It is volatile in air so spillage vapours may present and explosion hazard in small spaces if mixed with air. Mop up immediately with suitable absorbent granules or paper and remove to outside area for proper disposal (can be evaporated to atmosphere). Clean the spillage area with detergent & water and run the waste to sewer drains.
Unused reagent can be disposed of by disposal to public sewer dilution greatly with tapwater. If quantities larger than 250ml are involved the waste should be collected in a suitable container for disposal by a licensed waste disposal contractor.
Packaging should be rinsed with water and recycled as polyethylene, paper & cardboard.

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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