

S0340-S0350 GCC Diagnostics Fields Stains A & B

Reagents to carry out the Fields Stain procedure to demonstrate Malarial Parasites in blood & tissue.

Specification:

S0340 1ltr Fields stain A (Buffered Azure reagent)

S0350 1ltr Fields stain B (Buffered Eosin reagent) .

Reagents are ready to use and supplied in 125ml/250ml/500ml & 1ltr sizes.

Additional reagents required.

- Methanol for thin smear fixation.
- Buffered pH 6.80 deionised water.

Preparation of Blood Films (Thick Blood Smears).

Thick blood smears are widely used in the diagnosis of Malaria. A large area of blood may be surveyed in a short amount of time and parasites seen even if present in small numbers.

Make a thick film by placing a small drop of blood in the centre of a slide and spread it out with the corner of another clean slide to cover an area about 4 times its original size. The correct thickness for the film can be demonstrated by placing the slide on a piece of newspaper, if the small print can just be seen beneath the slide under the blood smear then the correct thickness has been achieved.

Allow the film to dry for 30 minutes at least. Ensure film is completely dry before staining. Use a slide warmer to dry the smear to reduce drying time. Absolutely fresh films on the slide can wash off during staining, be aware of this and ensure the film is thoroughly dry.

Do not fix smears in any other reagent.

General Method (single slide) : (Thick or thin smears)

Prepare thin smears in the normal way and fix in Methanol for a few minutes after air drying or thick smears as above without fixation.

- 1 – Dip the slide into Fields Stain A for 2-3 seconds.
- 2 – Rinse in buffered water pH 6.80 for 5-10 seconds or until stain ceases to run off the slide.
- 3 – Dip slide into Fields Stain B for 1-2 seconds.
- 4 – Rinse rapidly in clean buffered water pH 6.80 for 10 seconds or so.
- 5 – Shake off excess water and stand upright on tissue paper to dry. (Do not blot dry).

Results:

Malarial parasites will be seen at various stages of development in erythrocytes staining various shades of purple , blue- purple against pale yellow or straw coloured background.

If comprehensive information on Malarial Parasite staining and identification etc are required please contact us for further guidance.

Storage:

Store reagent at cool room temperature in darkened cupboard away from direct sunlight. Keep tightly closed to prevent air oxidation.

Material safety data section

These reagents contain basic and acid dyes in a phosphate buffered aqueous solvent. There is very little risk in normal use of these products. The Azure component of Fields stain A can de-oxygenate blood if ingested in sufficient quantities. Do not consume. 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. Seek medical attention if soreness persists. Wear suitable eye, face and body protection when using. This product is for “In-vitro diagnostic use only “. Standard precautions for handling laboratory reagents should be followed when using this product
R: 22 S: 7-24-25-26-28-45

Waste disposal :

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.

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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Revised April 2004



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