

Intended use

Ready to use combi kit each of Albert's Stain A and Albert's Stain B for observing metachromatic granules.

Summary & Principle

Albert's Metachromatic Stain demonstrates the presence of metachromatic granules found in *Corynebacterium diphtheriae*. The granules stain purple-black against the light green counterstained cytoplasm. This helps to distinguish *Corynebacterium diphtheriae* from most of the short non-pathogenic diphtheroides which lack granules.

Reagent / Contents

Albert's Stain A:

Toluidine blue	0.15 g
Malachite green	0.20 g
Glacial acetic acid	1.0 mL
Ethyl alcohol, 95%	2.0 mL
Distilled water	100 mL

Albert's Stain B:

Iodine crystals	2.0 g
Potassium iodide	3.0 g
Distilled water	300 mL

**Formula adjusted, standardized to suit performance parameters.

Accessories

Cap with dispenser - 1 no.

Dropper-1 no.

Appearance

Albert's Stain A: Peacock blue coloured liquid.; **Albert's Stain B:** Dark amber coloured solution.

Storage and Stability

Store at 15-25°C in tightly closed container and away from bright light. Use before expiry date on label.

Materials required but not provided

Clean grease-free glass slide, loops, staining rack, Bunsen burner, blotting paper, immersion oil, microscope.

Type of Specimen

Clinical samples such as nasopharyngeal and throat swabs; food; dairy and water samples.

Procedure

1. Prepare a thin smear on a clean dry glass slide.
2. Allow it to dry and fix with gentle heat.
3. Stain with Albert's Stain A for 3-5 minutes.
4. Drain the solution, do not wash.
5. Apply Albert's Stain B for 1 minute.
6. Rinse with water and blot dry.
9. Examine the smear under microscope, 40X and 100X in oil immersion lens.

Interpretation of Results

Metachromatic staining was carried out and staining characteristics of the organism was observed under microscope by using oil immersion lens. The metachromatic granules of *Diphtheria bacilli* stain black and the cytoplasm stains light green.

Warning & Precautions

For *in vitro* diagnostic use only. Read the label before opening the container. Safety guidelines may be referred in

individual safety data sheets. Standard precautions as per established guidelines should be followed while handling clinical specimens.

Limitations

Stained smear should not be washed with water as the stain gets washed off and fades the stains.

Warranty

This product is designed to perform as described on the label and pack insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference

Data on file: Ultra Care Diagnostics .

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.