Albert's Metachromatic Stains Kit is used for observing metachromatic granules.

**Composition**

**Ingredients**

Albert's stain A(S001)  
- Toluidine blue 0.150 gm  
- Malachite green 0.200 gm  
- Glacial acetic acid 1.000 ml  
- Ethyl alcohol, 95% 2.000 ml  
- Distilled water 100.000 ml

Albert's Stain B(S002)  
- Iodine crystals 2.000 gm  
- Potassium iodide 3.000 gm  
- Distilled water 300.000 ml

**Formula adjusted, standardized to suit performance parameters**

**Directions**

1. Prepare a thin smear on a clean dry glass slide.  
2. Allow it to dry and fix with gentle heat.  
3. Stain with Alberts Stain A(S001) for 3-5 minutes.  
4. Drain the solution, do not wash.  
5. Apply Alberts Stain B (S002) for 1 minute  
6. Rinse with water, blot dry and examine under oil immersion objective.

**Principle And Interpretation**

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 nonpathogenic diphtheroides which lack granules.

**Quality Control**

**Microscopic examination**

Metachromatic staining is carried out and staining characteristics of the organism is observed under microscope by using oil immersion lens.

**Results**

The metachromatic granules of Diphtheria bacilli stain black and the cytoplasm stains light green.

**Storage and Shelf Life**

Store below 30°C in tightly closed container and away from bright light. Use before expiry date on label.

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**Disclaimer:**

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