

Heterogeneous Particle Stain Solution

(Modified Albert Method)

H1510442

Storage Room temperature. Protect from light.

Shipping Regular transportation.

Introduction

Currently, the Albert method is commonly used for metachromatic granule staining. This method features simple operation and clear contrast, and is mostly applied to stain *Corynebacterium diphtheriae*.

Corynebacterium diphtheriae is mostly rod-shaped and Gram-positive, but one end often extends irregularly to form a club-like shape. The bacteria usually cluster at acute angles into V, L, or Y configurations. They are non-motile and lack capsules and spores. After staining, distinctly deeply stained granules, namely metachromatic granules, can be observed at one end, both ends, or the center of the bacterial cells.

Product Components and Storage Conditions

H1510442	Component	2×20mL	2×50mL	Storage
H1510442A	Toluidine Blue Staining Solution	20mL	50mL	RT. Store in the dark.
H1510442B	Albert Iodine Solution	20mL	50mL	RT. Store in the dark.

Operating Procedures (For Reference Only)

1. Prepare a cell smear.
2. Fix the smear by flaming, then add toluidine blue staining solution dropwise and stain for 3–5 minutes.
3. Rinse with water.
4. Add Albert iodine solution dropwise and stain for 1 minute.
5. Rinse with water.
6. Air-dry and examine under a microscope.

Staining Results

1. Metachromatic granules Dark blue
2. Bacterial cells Light blue



Precautions

1. Avoid excessive decolorization, as this will reduce the contrast between bacteria and granules.
2. For your safety and health, wear a lab coat and disposable gloves during operation.

