

Malachite Green Aqueous Solution (5%)

M1508174

Storage: Room Temperature.

Shipping: Normal.

Introduction:

Malachite green, also known as China green, is a synthetic dye with a CAS number of 569-64-2 and a molecular weight of 364.92. The 5% aqueous solution of malachite green is mainly composed of malachite green and deionized water. It can be used for Brucella staining or other applications, and can be combined with other dyes to achieve excellent staining results for pathological sections invaded by fungi. This reagent is for research use only and is not suitable for clinical diagnosis or any other purposes.

Self-prepared Materials:

Glass slides, coverslips, alcohol lamps, optical microscopes.

Operating Procedures (For Reference Only):

1. The 5% aqueous malachite green solution is generally intended for special applications. For routine staining purposes, it should be diluted to a concentration of 0.5–1% prior to use.
2. Smear Preparation: Number the glass slides. Add 2–3 drops of the 0.5–1% aqueous malachite green solution and stain for 2-3 minutes.
3. Cover the smear with a clean coverslip and press gently to prepare a squash preparation.
4. Observe the bacterial morphology under the low-power, high-power, or oil immersion objective lens of an optical microscope.

Precautions:

1. Mark a circle on the back of the slide before preparing the smear to identify the area for subsequent observation.
2. Bacterial culture duration affects staining results. For Gram-positive bacteria, an excessively long incubation period, cell death, or bacterial lysis often results in a negative reaction.
3. Use the reagent as soon as possible after opening to prevent any adverse impact on subsequent experimental results.