

Malachite Green Aqueous Solution (1%)

M1508177

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 1% 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. Smear Preparation: Number the glass slides. Place 2–3 drops of 1% aqueous malachite green solution in the center of a slide and stain for 2–3 minutes.
2. Cover the smear with a clean coverslip and press gently to make a squash preparation.
3. Observe the bacterial morphology under a 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 determine the position for subsequent observation.
2. Bacterial culture duration affects staining results. For positive bacteria, an excessively long culture period, cell death, or bacterial lysis often leads to false-negative reactions.
3. Use the reagent as soon as possible after opening to avoid compromising the results of subsequent experiments.