



Product Information Sheet

M573

MALACHITE GREEN OXALATE

Synonym: Basic Green 4; Diamond Green B; C.I. 42000; Victoria Green B; Aniline Green; China Green; Benzal Green; Benzaldehyde Green; Fast Green

CAS: 2437-29-8

Formula: $C_{23}H_{25}N_2 \cdot C_2HO_4 \cdot 0.5C_2H_2O_4$

Molecular Wt: 463.5

Properties

Form: Crystals or Crystalline Powder
Appearance: Green
Application: Fluorescent Dye/ Molecular Biology/Histology
Solubility: Very Soluble in Water (100g/L) and Ethanol
Storage Temp: Room Temperature

Application Notes

Malachite Green Oxalate is used as a biological counter-stain against fuschin which is used to stain bacterial cells red, and safranin which stains cell nuclei red. Malachite green stains the background of the surrounding tissue green. It is also used as a counterstain for botanical materials embedded in parafin.

It is used in multiple staining techniques for various applications, such as staining bacterial spores (Schaeffer and Fulton, 1933), as a counter stain in the Gimenez staining method (Gimenez, 1964) and as a component of the Pianese IIIb stain utilized for studying fungi on living or dead plant tissues (Vaughan, 1914), among other methods.

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