



# Product Specifications

## METHYLENE BLUE

<u>Catalog #</u>	<u>Size</u>
IB74050	25gm

### Physical Specifications

CAS#	7220-79-3
Formula Weight	373.9
Molecular Formula	$C_{16}H_{18}ClN_3S \cdot 3H_2O$
$E_m$ (661 nm, water)	>69,000
Arsenic	0.0008%
Copper	<0.01%
Moisture	Max. 15.0%
Zinc	<0.001%
Lead	<0.001%
Dye Content (Dry Basis)	98 - 103%

### Recommended Use

Methylene Blue is a recommended stain for agarose gels when recovery of DNA is required. The benefit of using Methylene Blue (rather than ethidium bromide) is the ability to use a white light box for visualization and photography in place of a UV light box. Using a white light box eliminates mutations that may affect the integrity of the isolated DNA.

1. Stain a 1% gel for 15 minutes with 0.02% Methylene Blue Solution in distilled water.
2. Destain with distilled water for 15 minutes.

### Used for staining RNA that is bonded to nylon and nitrocellulose membranes.

1. Soak the dried filter in 5% acetic acid at room temperature for 15 minutes.
2. Place the filter in 0.5M Sodium Acetate (pH 5.2) and 0.04% Methylene Blue for 5-10 minutes at room temperature.
3. Rinse the filter in water for 5-10 minutes.

### Storage

Store at room temperature. Protect from moisture.

### Warning

Irritant. Avoid contact with eyes, skin and clothing. Do not take internally. Wash thoroughly with water after handling. See Material Safety Data Sheet for additional information.