

**Ethidium Bromide Solution, 10 mg/mL****PG-823-10ml**

Ethidium Bromide Solution (10 mg/mL) is a ready-to-use fluorescent nucleic acid stain widely used in molecular biology for the detection and visualization of DNA and RNA in agarose and polyacrylamide gels. It intercalates between nucleic acid base pairs and fluoresces under UV light, enabling sensitive detection of nucleic acids following electrophoresis.

---

	<b>Details</b>
<b>Product Name</b>	Ethidium Bromide Solution, 10 mg/mL
<b>Description</b>	Ready-to-use fluorescent intercalating agent for detection and visualization of DNA and RNA in molecular biology applications.
<b>Concentration</b>	10 mg/mL
<b>Molecular Weight</b>	394.31 g/mol
<b>Appearance</b>	Clear dark red to reddish-orange solution
<b>Molecular Formula</b>	$C_{21}H_{20}BrN_3$
<b>Solvent</b>	Molecular Biology Grade Water
<b>Solubility</b>	Completely soluble in water
<b>pH</b>	Approximately 5.0 – 7.0
<b>CAS Number</b>	1239-45-8
<b>Storage Condition</b>	Store at 2–8°C, protected from light
<b>Shelf Life</b>	Refer to product label
<b>Grade</b>	Molecular Biology Grade
<b>Applications / Uses</b>	DNA staining in agarose gels, RNA staining, polyacrylamide gel electrophoresis (PAGE), nucleic acid visualization under UV light, molecular biology research

**Safety**

Ethidium Bromide is a mutagenic chemical that may be harmful if inhaled, ingested, or absorbed through the skin. Wear appropriate PPE including gloves, lab coat, and safety goggles. Avoid direct contact with skin and eyes. Handle according to laboratory safety procedures and dispose of as hazardous chemical waste. Store protected from light at 2–8°C.