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## DATASHEET

Ethidium Bromide solution, 10mg/mL in H<sub>2</sub>O

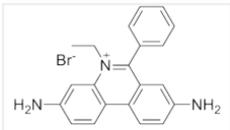
### Product overview

<b>Name</b>	Ethidium Bromide solution, 10mg/mL in H <sub>2</sub> O
<b>Cat No</b>	HB9326
<b>Biological description</b>	Intercalating DNA and RNA fluorescent dye which intercalates between base pairs. Fluorescence of dye increases when bound to double stranded DNA and RNA.  It is commonly used in gel staining and other staining processes.
<b>Biological action</b>	Dyes & stains
<b>Description</b>	Intercalating DNA/RNA fluorescent dye

### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	5-ethyl-6-phenylphenanthridin-5-ium-3,8-diamine;bromide
<b>Molecular Weight</b>	394.31
<b>Chemical structure</b>	 The chemical structure shows a phenanthridine ring system with a positive charge on the nitrogen atom, which is coordinated to a bromide ion (Br <sup>-</sup> ). The ring system is substituted with an ethyl group, a phenyl group, and two amino groups (H <sub>2</sub> N) at the 3 and 8 positions.
<b>Molecular Formula</b>	C <sub>21</sub> H <sub>20</sub> BrN <sub>3</sub>
<b>CAS Number</b>	1239-45-8
<b>PubChem identifier</b>	14710
<b>SMILES</b>	CC[N+]1=C2C=C(C=CC2=C3C=CC(=CC3=C1C4=CC=CC=C4)N)N.[Br-]
<b>InChiKey</b>	ZMMJGEGLRURXTF-UHFFFAOYSA-N
<b>MDL number</b>	MFCD00011724

### References

#### The Effect of Ethidium Bromide on Mobility of DNA Fragments in Agarose Gel Electrophoresis

Sigmon and Larcom (1996) Electrophoresis 17(10)

**PubMedID** [8957173](#)

#### Ethidium Bromide Provides a Simple Tool for Identifying Genuine DNA-independent Protein Associations

Herr et al (1992) Proc Natl Acad Sci U S A 89(15)

**PubMedID** [1495986](#)

