

PRODUCT INFORMATION

Product Type: BP451 - Ethidium Bromide Dropper 1 mg/ml - 10 ml

BP717 - Ethidium Bromide Dropper 0.625 mg/ml - 5 ml

Cat No. BP451 - ETHIDIUM BROMIDE (0.1%), 10ML
BP717 - ETHIDIUM BROMIDE (0.0625%), 5ML

Hazard classification. EINECS: 2149846, Disposal: 9, very toxic, irritant, RID/ADR: 6.1/25 a, UN 2811.



FOR RESEARCH USE ONLY

Intended Use:

Ethidium Bromide is a widely used fluorescent stain for visualizing nucleic acids in solution or electrophoresis gels. At a concentration of 0.5 µg/ml, it is useful in agarose or acrylamide gels for band detection of as little as 10 ng of nucleic acid at 312 nm.

Principles and uses

Ethidium bromide is primarily used as a stain for double-stranded DNA and RNA during agarose gel electrophoresis. At typical working concentrations (often far lower than 0.1%, usually around 0.5–1 µg/mL), it intercalates between nucleic acid base pairs and fluoresces under UV light, making DNA bands visible for analysis.

Hazards:

Ethidium bromide is a potent mutagen and probable carcinogen. Gloves, face protection, and proper containment must be used when handling Ethidium Bromide.

Contaminated materials must be disposed of as hazardous waste following institutional and governmental regulations.

Specifications

Biotechnology Grade

$C_{21}H_{20}BrN_3$

CAS 1239-45-8

Purity >98.0%

pH 8

Concentration: **BP451**- 0.1%

BP717 - 0.0625%

in ultra pure water

Storage: 15-25° C

PHL-MI-280-02

Recommended use

Always wear personal protective equipment when handling ethidium bromide. Avoid contact with skin and refer to your institute safety precautions.

Ethidium Bromide provided in a dropper bottle makes dispensing the chemical safer and more convenient while maintaining consistent results.

BP451: Each drop contains 25 µg of ethidium bromide. Simply add one drop of the Ethidium Bromide solution per 50 ml gel solution (before gelation) and cast your gel as usual. For larger gels, simply add an additional drop for each additional 50 ml gel solution. For running gels with Ethidium Bromide in the running buffer, or stain gels following electrophoresis, the same dilutions apply.

BP717: Each drop contains 15.625 µg of ethidium bromide.

Composition:

TRIS 1M PH 8.0 – 10ml/L

Ethidium Bromide – **BP451** - 1 g/L

BP717 - 0.625 g/L

EDTA 0.5M PH 8.0 – 2ml/L

Storage: - 15-25° C

Appearance: **BP451** - Red to Very Dark Red liquid.

BP717 - Red to orange-red clear liquid

pH Range: 8

Exp. Date: Printed on label and on the item.

Required materials not supplied: Laboratory equipment as required.

MSDS is available upon request.
