

Lot No.: **31S**

Olerup SSP® Ethidium Bromide Dropper Bottle

Product number: 103.301-10
Lot number: 31S
Volume: 10 ml
Concentration: 625 µg/ml
Expiry date: 2015-July-01
Storage: Room temperature (25°C)

PRODUCT USE Adding ethidium has never been easier! For the recommended final concentration of 0.5µg/ml, simply add one drop from the bottle for every 50 ml of solution. For the most accurate and consistent results, hold the dropper bottle vertically and squeeze slowly until the forming drop falls from the tip.

$$0.040 \text{ ml} \times 625 \text{ µg/ml} / 50 \text{ ml} = 0.5 \text{ µg/ml}$$

drop size	stock concentration	final volume	final concentration
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Remember to allow agarose to cool to 55-60°C before addition of ethidium to prevent volatilization of the compound.

For post-run staining of gels, use a 1X buffer with 0.5 µg/ml ethidium bromide for 30 min at RT. This can be followed with an optional destaining soak in water or 1 mM MgSO₄ for 20 min at RT, to reduce background fluorescence.

STORAGE Store at room temperature (25°C) and shield from light. The storage vial supplied with your dropper bottle is specially designed to exclude damaging UV light. It also provides an extra level of protection from accidental spills.

DISPOSAL All ethidium containing solutions and gels must be disposed of properly. Follow your local recommendations.

CAUTIONS Ethidium bromide is a strong mutagen and a moderate acute toxin. Always use gloves and eye protection when handling ethidium containing solutions. For further information, consult the MSDS for this product on the reverse of this sheet.
The UV light from sources used for visualization of ethidium stained DNA is damaging to your eyes. Always wear appropriate protective eyewear when using these instruments.

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**PRODUCT
IDENTIFICATION**

PRODUCT: Ethidium bromide solution, 0.625 mg/ml concentration.
PRODUCT No.: 103.301-10
MANUFACTURE: Genesee Scientific Corporation, San Diego, CA 92126.
CHEMTREC: 800-424-9300

**PRODUCT
COMPOSITION**

CAS #	CHEMICAL NAME	%	EINECS #
1239-45-8	ethidium bromide	1	214-984-6
7732-18-5	water	99	231-791-2

PHYSICAL DATA

Aqueous solution, red-orange colour, no odour.
Specific gravity: 1.0
pH @ 25°C: 6.9 +/- 1.0

**HAZARD DATA
AND FIRST AID
MEASURES**

IRRITANT, SUSPECTED MUTAGEN
EYE: irritant, in case of contact rinse thoroughly with water and consult physician.
SKIN: irritant, may cause local dermatitis, in case of contact wash thoroughly with soap & water, do not handle material with bare hands. Avoid all contact with clothing, properly dispose of all contaminated clothing.
INGESTION: toxic, irritant, causes nausea, vomiting. Seek medical aid immediately.
INHALATION: irritant, avoid breathing fumes.

FIRE HAZARD DATA

Non-flammable, wear MSHA/NIOSH approved self-contained breathing apparatus.
Flashpoint: N/A
NFPA RATING: Not published
Hazardous decomposition products: nitrogen oxides, CO, CO₂

**ACCIDENTAL
RELEASE**

Wear chemical safety goggles and gloves, collect material for disposal with absorbant material. May be disposed of by incineration in an approved device.

**EXPOSURE
CONTROL**

Chemical safety goggles as per 29 CFR 1910.133
Chemical resistant gloves
Avoid contact with eyes, skin and clothing
Wash thoroughly after exposure
Use respiration protection devices that meet OSHA CFR 1910.134 and ANSI Z88.2 specifications

REACTIVITY

Stable at room temperature under normal conditions.
Avoid contact with strong oxidizing agents.

TOXICOLOGY

RTECS: CAS# 1239-45-8: SF7950000 (ethidium bromide)
LD50/LC50: UNLISTED
CARCINOGENICITY: Not listed by ACGIH, IARC, NIOSH, NTP or OSHA. No other data available.
MUTAGENICITY: structurally similar to compounds known to be potent mutagens.

**ENVIRONMENTAL
CONCERNS**

Dispose of in a manner consistent with federal, state and local regulations.
RCRA: No information available. Not listed as a RCRA land disposed banned material.

**HANDLING &
STORAGE**

Store at room temperature in a UV light resistant container.
Avoid eye and skin contact. Wear protective eye-wear, gloves and clothing. Follow directions for use.

**TRANSPORT
INFORMATION**

No specific USDOT, IMO, IATA, RID/ADR or TDG information available.
Constituent materials not listed at the concentrations occurring in these products.

REGULATIONS

Federal: TCSA: ingredients listed, no ingredients have a SNUR under TCSA.
SARA: None of the ingredients have a RQ. None of the ingredients have a TPQ.
None of the ingredients are listed under Section 313 CAA. This material does not contain any hazardous air pollutants or Class 1 or Class 2 ozone depleters OSHA.
State RTK listings: none
European: No hazards symbols. Risk not available. Safety S24/25.

OTHER INFORMATION

The above information is believed correct as of the above date, but does not purport to be all inclusive and shall be used only as a guide. Olerup SSP AB shall not be held liable for any damage resulting from handling or from contact with the above product.