

Ethidium Bromide

<u>Code</u>	<u>Description</u>	<u>Size</u>
E406-5ML	Ethidium Bromide, 0.625 mg/ml (Dropper bottle)	5 ml
E406-15ML	Ethidium Bromide, 0.625 mg/ml (Dropper bottle)	15 ml
X328-10ML	Ethidium Bromide, 10 mg/ml	10 ml
0492-5G	Ethidium Bromide	5 g
0492-25G	Ethidium Bromide	25g

General Information:

Ethidium Bromide, a widely used stain for visualization of DNA and RNA bands on agarose gels, is available from AMRESCO in both powder and liquid formulations. Solutions are available in the standard 10 mg/ml stock or as a 0.625 mg/ml stock supplied in convenient dropper bottles for added safety and convenience. Provided as an ultra-pure, Biotechnology grade, AMRESCO Ethidium Bromide is free of detectable DNase and RNase activity.

The dropper bottle packaging offers a reliable dilution method for nucleic acid staining applications while eliminating weighing, mixing and pipetting of Ethidium Bromide solutions. A single drop added to 50 ml of agarose, running buffer or staining buffer yields a final concentration of 0.5 µg/ml of Ethidium Bromide, the working concentration recommended for in-gel as well as post-run staining.

AMRESCO Ethidium Bromide solutions are supplied in light-safe, shatter-proof packaging that prolongs the shelf-life of the product and greatly reduces the chance of product breakage. Solutions do not incur hazardous shipping charges.

Ethidium Bromide is a known toxin and mutagen. Gloves and appropriate safety equipment should be worn when handling solutions or stained gels. Solutions and gels should be disposed of according to local regulations.

Storage/Stability:

Store product at room temperature, 18-22C.

Absorbance/Emission

Absorbance maxima: 300 and 360 nm

Emission maxima: 590 nm

Minima:

Application Disclaimer

For Research Use Only.

Not for Therapeutic or Diagnostic Use.



Procedure:

Methods below are sensitive to approximately 5ng of DNA per band.

➔ **Caution:** Ethidium Bromide is a known toxin and mutagen and should be handled with extreme caution. Gloves and appropriate safety equipment should be worn when handling solutions or stained gels. Solutions and gels should be disposed of according to local regulations.

Dropper bottles (0.625 mg/ml)**In-gel staining**

- Add one drop of the Ethidium Bromide solution per 50 ml of the molten gel solution and cast your gel as usual. For larger gels, simply add an additional drop for each additional 50 ml gel solution.
- For those who wish to run their gels with Ethidium Bromide in the running buffer, add 1 drop of solution to each 50 ml of running buffer.
- Destaining is not generally required but may be necessary to obtain maximum sensitivity. If needed destain gels in water or 1 mM MgSO₄ for 10-30 minutes.
- Place the gel on plastic wrap on a UV light box and observe under 300nm illumination.

Post-run staining

- Add one drop to 50 ml water or buffer. Prepare sufficient solution to completely submerge the gel. (Solution is stable for 1-2 months at room temperature when protected from light.)
- After the run, submerge the gel in the staining solution for 15-30 minutes (depending upon gel thickness).
- Destaining is not generally required but may be necessary to obtain maximum sensitivity. If needed destain gels in water or 1 mM MgSO₄ for 10-30 minutes.
- Place the gel on plastic wrap on a UV light box and observe under 300nm illumination.

10 mg/ml Ethidium Bromide Solution

Dilute 2.5 µl of the 10 mg/ml stock solution into 50 ml of molten agarose, running buffer or staining solution. Follow instructions above.

Related Products

<u>Code</u>	<u>Product</u>
E732	Destaining bags
0710	Agarose I™
N313	EZ-Vision™ Three DNA DYE & Buffer
N550	Ready Ladder™ 100bp, DNA Marker
N551	Ready Ladder™ 1kb, DNA Marker

**Corporate Headquarters**

AMRESCO Inc.
30175 Solon Industrial Pkwy.
Solon, OH 44139 USA
Tel: (440) 349-1199
Toll free: 1-800-829-2805 (US & Canada)
Fax: (440) 349-2441
e-mail: info@amresco-inc.com

To Order (USA & Canada)

Website: www.amresco-inc.com
Toll free: 1-800-829-2805
Toll free fax: 1-800-326-3733
Fax: (440) 349-3255
e-mail: dom-sales@amresco-inc.com

International Orders:

Tel: (440) 349-1199
Fax: (440) 349-2441
e-mail: int-sales@amresco-inc.com

Technical Support

Toll free: 1-800-610-2789 (USA & Canada)
Fax: (440) 349-0235
e-mail: techinquiry@amresco-inc.com

ZY0219 Rev.2, 01/19/10 ©Copyright 1994,1998, 2010 by AMRESCO Inc. All Rights Reserved. AMRESCO® is a registered trademark of AMRESCO Inc.

