



PRODUCT INFORMATION

AMRESCO Destaining Bags

Remove Ethidium Bromide and other dyes from solutions safely, easily.

Ethidium Bromide is an extremely useful, easy-to-use dye for visualizing nucleic acids in solution and in Agarose and in Agarose electrophoresis. Although the recent introduction of Ethidium Bromide solutions into the marketplace has eliminated many of the hazards of using the powdered dye for these applications, researchers are still faced with the difficult and unpleasant task of disposing of this toxic stain. The result is that many researchers neglect to remove Ethidium Bromide from their staining and electrophoresis buffers before disposing of them down the drain, which contaminates municipal waste-water with this toxic, mutagenic, carcinogenic substance.

AMRESCO now offers a way for you to remove Ethidium Bromide, Coomassie Blue and other biological dyes and stains from solution for easy, safe disposal. AMRESCO Destaining Bags effectively extract milligram quantities* of Ethidium Bromide from solution without exposing research personnel to corrosive agents or contaminated substrates. The special absorbent mixture retains dye molecules in a convenient bag for removal and incineration.

AMRESCO Destaining Bags are made with materials that can be safely disposed in incinerated trash.

- A 0.05 $\mu\text{g/ml}$ solution of Ethidium Bromide has an A_{285} of approximately 0.01 at a 1X concentration.
- A 1 $\mu\text{g/ml}$ solution of Ethidium Bromide has an A_{285} of approximately 0.1 at a 1X concentration.
- Changing bags during destaining will increase the rate of destaining and yield faster results.
- Destaining rates are independent of salt concentration.
- Each bag will extract up to 5 mg of Ethidium Bromide from solution during an overnight treatment.

Related Products:

- Ethidium Bromide Dropper Bottle – Code E406
- Ethidium Bromide 10 mg/ml Solution – Code X328
- Ethidium Bromide High Purity Powder – Code 0492
- Coomassie Brilliant Blue G-250 – Code 0615
- Coomassie Brilliant Blue R-250 – Code 0472

Performance Evaluation with Typical Results

| Starting Concentration ($\mu\text{g/ml}$) 1 Liter of Solution | Beginning A_{285} | A_{285} at 1 Hour (% removed) | A_{285} at 2 Hours (% removed) | A_{285} at 4 Hours (% removed) | A_{285} after Overnight Incubation (% removed) |
|---|---------------------|---------------------------------|----------------------------------|----------------------------------|--|
| 0.05 | 0.0089 | 0.0061 (32%) | 0.0025 (72%) | N/A | 0.0008 (92%) |
| 0.5 | 0.0586 | 0.0205 (65%) | 0.0142 (76%) | N/A | 0.0001 (99%) |
| 1.0 | 0.1186 | 0.0443 (63%) | 0.0291 (75.5%) | 0.0113 (89%) | 0.0025 (98%) |
| 8.8 | 0.8908 | 0.0692 (92%) | 0.0464 (95%) | 0.0413 (95%) | N/A |

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