



Ethidium Bromide Destaining Tea Bags

New & Improved

Catalog No.	Quantity
15007-25	25 Tea Bags

Instruction Manual

Introduction

Ethidium Bromide is an easy to use but potentially hazardous dye for visualizing nucleic acids in agarose gels. It is also a powerful mutagen requiring safe methods of disposal. Purchasing the dye in solution reduces the hazards of use and handling, but safe and efficient disposal remains a problem. Failure to remove ethidium bromide from solutions prior to disposal contaminates municipal wastewater and may violate local water discharge regulations. Previous decontamination methods, such as addition of sodium hypochlorite (bleach) are no longer recommended due to the possible conversion of the dye to other mutagenic compounds.

MO BIO Laboratories now offers an easy and efficient method to remove ethidium bromide (also Coomassie Blue and other dyes) from solutions and gels for safe and easy disposal. Simply drop an absorbent bag into your solution and let it incubate overnight (stirring speeds the process). Typically, each bag will decontaminate 99% of the dye from 1 liter of a 0.5 μ g/ml solution of ethidium bromide overnight. After use, the destaining bag can then be safely disposed of as a biohazard waste and is usually destroyed by incineration through a licensed hazardous waste facility. The remaining solution is now safe to pour down the drain. Note that although each bag has a maximum capacity of 5 mg of ethidium bromide dye absorption, reusing the bag requires that an accurate quantity log be kept to avoid overloading the resin, resulting in incomplete decontamination of the solution.

Precautions: Wear gloves. If eye or skin contact occurs with the contaminated solutions, wash thoroughly with water.

Storage Conditions

Store at 20-25°C for up to 1 year.

This product is for research purposes only. Not for diagnostic use.

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Technical Support: 1-800-606-6246 or 1-760-929-9911 E-mail: technical@mobio.com



Instructions for Use

Please wear gloves at all times

If decontaminating a stained gel, place gel into water or buffer solution. Place the destaining bag into a solution containing the dye or containing an ethidium bromide contaminated gel. Allow the solution with the bag to incubate overnight. Gentle mixing or stirring will increase the absorption efficiency. Remove the destaining bag and dispose of it as a biohazardous waste. Dispose of the solution and the destained gel as non-hazardous waste.

Absorption Data

Initial Concentration (µg/ml)	Initial A285	A285 @ 1 hour (% removed)	A285 @ 2 hour (% removed)	A285 @ 4 hour (% removed)	A285 @ overnight (% removed)
0.05	0.0089	0.0061(32%)	0.0025(72%)	NA	0.0008(92%)
0.5	0.0586	0.0205(65%)	0.0142(76%)	NA	0.0001(99%)
1.0	0.1186	0.0443(63%)	0.0291(75%)	0.0113(89%)	0.0025(98%)
8.8	0.8908	0.0692(92%)	0.0464(95%)	0.0413(95%)	NA

Results are calculated based on the use of one destaining bag in 1 liter of solution containing the indicated starting concentration of ethidium bromide. Destaining bag efficiency is independent of salt concentration. (NA=results not available)

Other Electrophoresis Reagents Available from MO BIO Laboratories, Inc.

Product Description

<u>Product Description</u>	<u>Catalog No.</u>
Gel Loading Buffer, Bromophenol Blue/Xylene Cyanol (1 ml)	15009-1
Ethidium Bromide Solution (10 ml dropper bottle)	15006-10
TAE Buffer, 50X (Tris-acetate-EDTA) (1 liter)	15001-1000
TBE Buffer, 10X (Tris-borate-EDTA) (1 liter)	15002-1000
UltraClean™ Agarose (50 g)*	15003-50
1Kb Ladder (100 ug)*	17200-100

* Other sizes and/or configurations available, please visit www.mobio.com under lab supplies for more information

Contact Information

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Ordering Information

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For the distributor nearest you, visit our web site at www.mobio.com/distributors

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