



EtBr Destaining Bags

Catalog #: 20-277

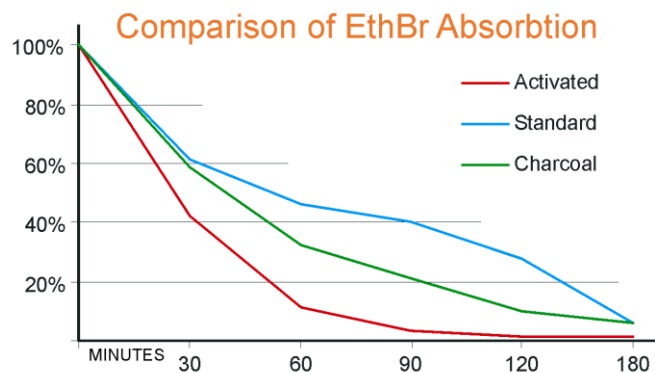
Quantity: 25 Bags

General Description

Apex Brand Destaining Bags from Genesee Scientific are a safe and efficient method for the removal of ethidium bromide (also Coomassie Blue and other dyes) from solutions and gels for easy disposal. Simply add activation solution and drop an activated bag into your solution and let stand overnight. In a few hours the bag will typically remove 99% of the dye from a 0.5 ug/ml solution by converting the staining agent to a solid form for more efficient and safe handling. The destaining bag, with the tightly bound stain, can then be easily disposed of as a chemical waste, which greatly reduces the volume of hazmat waste. Under most institutional regulations the decontaminated solutions and gels can now be disposed of as non-hazardous waste. Recommended by many institutional health and safety departments for quick and easy removal of stains & dyes from solutions and gels.

- Each bag disposes of the equivalent of 10 liters of your used EtBr contaminated buffer. That's 250 liters per pack!
- Destaining efficiency is independent of salt concentration, but can be affected by other buffer or analyte molecules.
- Although each bag has a maximum capacity of 5mg of ethidium, reusing the bag requires that an accurate decontamination log be kept to avoid overloading the resin, which could result in decreased absorption efficiency and incomplete absorption.

Typical Absorption Values



Typical comparative absorption of a 0.5ug/ml EtBr solution expressed as a % of the initial A₂₈₅

The Activation Advantage

Activated bags are able to effectively clear typical EtBr solutions in just three hours. Other typical resin and charcoal bags demonstrate slower and less efficient absorption.

For comparison data and complete details, visit: www.geneseesci.com/etbrproducts.

Destaining Bags

Cat #	Description	Qty
20-277	Destaining Bags	Pack of 25

RELATED PRODUCTS



Concentration: 0.625mg/ml

EtBr Dropper Bottle - Adding and removing Ethidium Bromide has never been easier! For the recommended final concentration of 0.5ug/ml, simply add one drop for every 50ml of solution.

Description	Cat. No.
Apex TAE 25X Buffer, 1.6L Ultra Pure	20-195
Apex TBE Buffer 10X Concentrate, 4L	20-196
Apex EtBr Dropper Bottle, 10ml, 0.625mg/ml	20-276



Directions for Using New “Activated” Destaining Bags

- 1) Place the destaining bag into a beaker or other container that has been labeled as containing hazardous waste.
- 2) Wet the destaining bag with approximately 5ml of activating solution.
- 3) Add gels and/or buffer solutions into container and let sit overnight
(When decontaminating only stained gels, place gel into water or buffer solution to provide a diffusion medium.)
- 4) Remove destaining bag and dispose of chemical waste using your company/institution’s recommended procedure.
- 5) Dispose of solution and destained gel as non-hazardous waste. Be sure to consult your local waste disposal authorities before using any disposal method for potentially hazardous materials.

Notes:

Gentle mixing is recommended to increase the absorption efficiency but is not required. Typical absorption kinetics are shown below.

Destaining efficiency is independent of salt concentration, but can be affected by other buffers, dyes or analyte molecules.

Although each bag has a maximum capacity of 5mg of ethidium (10 liters of buffer at 5ug/ml), reusing the bag requires that an accurate decontamination log be kept to avoid overloading the resin, which will result result in decreased absorption efficiency and incomplete absorption. We recommend one-time use for ease and convenience.

Typical Absorption Values

Initial Concentration (micrograms/ml)	Initial A285	A285 @ 1 hour (% removed)	A285 @ 4 hour (% removed)	A285 @ 8 hour (% removed)	A285 @ 12 hour (% 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 on use of one destaining bag in 1 liter of solution containing the indicated starting concentration of ethidium bromide. (NA = results not available) Destaining bag efficiency is independent of salt concentration.