

# De-Staining Bags

For safe and efficient removal of dyes and stains from solutions and gels.

Now with new activation solution for increased absorption speed and efficiency

Product # REA-1015



## Efficient, Safe & Economical Ethidium Handling

BE ENVIRONMENTALLY HEALTHY WITH ETHIDIUM DROPPER BOTTLES AND DESTAIN BAGS

Recommended by institutional environmental staffs for removal of stains and dyes from solutions and gels. De-staining bags are a safe and efficient method for the removal of ethidium bromide, Coomassie Blue and other dyes from solutions and gels for easy disposal. Simply drop an absorbent bag into your solution and let stand overnight. In 12 hours the bag will typically remove 99% of the dye from a 0.5 ug/ml solution. The destaining bag, with the tightly bound stain, can then be easily disposed of as a chemical waste, while the decontaminated solution and gels become non-hazardous waste, greatly reducing hazmat waste volume.

### directions for use -

- 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 allow to stand over-night. When decontaminating only stained gels, place gel into water or buffer solution to provide a diffusion medium.
- 4) Remove destaining bag and dispose of as per your institution's recommended procedure for chemical waste.
- 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.

### additional notes -

- Gentle mixing will 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 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 resulting 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	1 Hour A285 (% removed)	4 Hour A285 (% removed)	8 Hour A285 (% removed)	12 Hour A285 (% 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	0.11860	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

Destaining bags with activation solution demonstrate increased absorption efficiency and speed relative to other bags on the market. For comparison data and complete details, visit: [highdesertbio.com](http://highdesertbio.com)

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

### re-order information -

product #	description	qty
REA-1015	De-Staining Bags	25 bags

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