DY-Capt Destaining Bags

Product Description

Easily destain contaminated solutions and concentrate toxic dyes (Ethidium Bromide (EtB), Coomassie,...) for removal and incineration + safety of workers

The special absorbant mixture efficiently absorb dye molecules as it leach from the gel, in a the bag. Hence, Destaining Bags:
- safely remove Ethidium Bromide and other toxic dyes from solution for cleaning solutions, that can be re-used.
- concentrate toxic material to dispose them off more economically according local rules (incineration).

- High binding capacity (>5mg Ethidium Bromide by bag)
- Made of material that is easily disposed in incinerated trash
- convenient packaging
- minimize the exposure of research personnel to toxic material.

Dyes

- **Ethidium Bromide** is an extremely toxic reagent, mutagenic and carcinogenic, despite great usefulness to easily visualize nucleic acids in electrophoresis gels (Agarose, Acrylamide). EtB solutions and convenient packaging (dropper) have been proposed to reduce exposure, avoiding weighing and dissolution. However, the staining step remains an unpleasant task, and the materials contaminated by EtB (electrophoresis buffers and gels, bench surfaces) have to been cleaned carefully and destroyed adequately.

- Most **other DNA stains** are also DNA-intercalating agents, hence potentially mutagenic.
- **Coomassie** dye, used to stain proteins, are not specially toxic but also a concern.

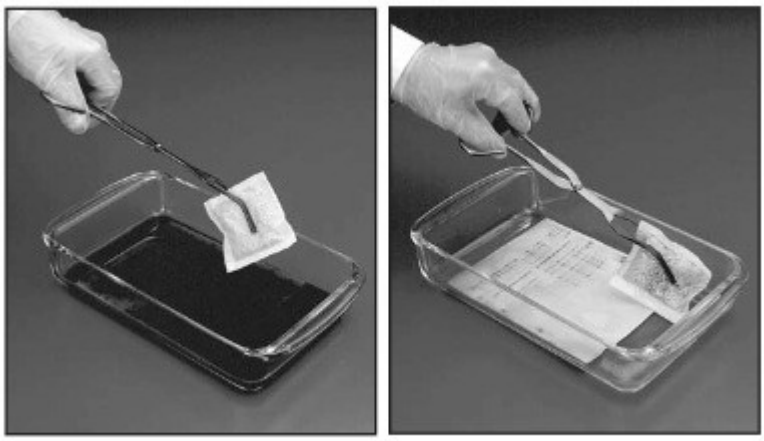
Uptima destaining bags offer a way to remove these dyes

Dyestaining bags #988421 use

Please wear gloves at all times

- Place a destaining bag in the incubation recipient containing the gel in buffer or water, or in the solution to be decontaminated.
- 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.

A bag can also be placed in a trash reserved to contaminated liquids.



Before | After

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● **Performance evaluation – typical results**
Each bag extracts up to 5 mg of Ethidium Bromide from solution (…cont…)

● **Performance evaluation – typical results**

Starting concentration of EtB (µg/ml)	A_{285nm} at beginning	A_{285nm} after 1Hour incubation (% removed)	A_{285nm} after 2Hours incubation (% removed)	A_{285nm} after 4Hours incubation (% removed)	A_{285nm} after overnight incubation (% removed)
0.05	0.0089	0.0061 (32%)	0.0025 (72%)	-	0.0008 (92%)
0.5	0.0586	0.0205 (65%)	0.0142 (76%)	-	0.0001 (99%)
1.0	0.1186	0.0443 (63%)	0.0291 (75.5%)	0.0113 (89%)	0.0025 (98%)
8.8	0.8909	0.0692 (92%)	0.0464 (95%)	0.0413 (95%)	-

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.

Related products and documents

- Disposable Absorbing cartridge F24989-0000 for low energy 35S radioactive substances during metabolic labeling
- Acrylamides solutions UPS54802
- GelRed, nucleic acid gel stain
- EtBr Destroyer
- Protein Electrophoresis in Agarose Gels NT-47255g
- Agaroses 31272L

For in vitro R&D use only

Ordering information

Catalog size quantities and prices may be found at http://www.interchim.com.
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06
Order on-line or Contact your local distributor

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