

# Disposal of Electrophoresis Buffer Solutions and Gels Containing GR Safe and GRGreen



**GR Safe and GRGreen** have been determined to be less nonmutagenic than Ethidium Bromide in Ames testing by independent licensed testing laboratories.

All gels and contaminated “non-sharp” lab debris (e.g., gloves, pads, towels, tubes, etc.) that are processed using this dye can be discarded in the trash.

Spent running buffer solutions and destaining solutions that contain the dyes can either be collected and disposed of through your organization’s Hazardous Waste Management Unit (HWMU) or collected and run through an approved filter device.

The buffer solutions that have been run through the approved filter should be checked under the appropriate light source for complete removal of the dyes, and if it passes (does not fluoresce), the liquid can be disposed of down the drain with a copious amount of water as long as no other materials are present that would cause the material to be a Hazardous Waste.

The filters that have been used up and are no longer effective must be disposed of through the HWMU.

Chemically contaminated sharps (needles, Pasteur pipets, razor blades) must be collected in an approved sharps shelter (**NOT RED** – use the white/translucent or yellow ones). It must be labeled “Hazardous Waste – Chemically Contaminated Sharps”.

## Approved Filters for Electrophoresis Dye Solutions

Company Name	Product Name	Product Code	Phone Number	Website
Amresco, Inc.	Destaining Bags	E732	800-829-2805	<a href="http://www.amresco-inc.com/">http://www.amresco-inc.com/</a>
BD Biosciences-Clontech	BondEX Detoxification Cartridges	K3080-1	877-232-8995	<a href="http://www.clontech.com/">http://www.clontech.com/</a>
VWR International	Extractor Waste Reduction System	28165-500	800-932-5000	<a href="http://www.vwrsp.com/">http://www.vwrsp.com/</a>