

Protocol of EtBr Destroyer- Sprayer

Fisher Molecular Biology EtBr Destroyer is a specifically designed reagent effectively degrade and destroy Ethidium Bromide and result in both non-fluorescence and non-mutagenic remain. The product also has a proven effectiveness at destroying SYBR Dye from materials after use.

Fisher Molecular Biology EtBr Destroyer is provided in two different formats for the treatment of both solid and liquid Ethidium Bromide contaminant. The ready pack EtBr Destroyer Bag is idea for the treatment of liquid Ethidium Bromide contaminant while Sprayer can be used for the treatment of solid contaminant waste including electrophoresis gels, glassware, paper towels, gloves, laboratory equipment, bench surface etc.

Features:

1. Effective:

Fisher Molecular Biology EtBr Destroyer is a laboratory reagent intended for the removal and destruction of Ethidium Bromide contamination. This effect can be monitored and confirmed by UV light exposure whereby once the EtBr has been destroyed the fluorescence will disappear.

2. Fast:

For uncertain contaminated area, spray the EtBr Destroyer on the entire working area, leave for about 5 minutes, then wipe it dry with paper towel. When dealing with more seriously contaminated liquid samples the EtBr Destroyer bag is an ideal solution. Three liters of double distilled H₂O containing 30mg of Ethidium Bromide can be destroyed in a matter of days using Fisher Molecular Biology' s easy-to-follow protocol with the bag format.

3. Specific:

Two specific formats are available to you for two different purposes:

Ethidium Bromide Solid contaminant treatment (Sprayer Bottle)-spray the contaminated object/area in question and all traces of EtBr will be destroyed.

Ethidium Bromide liquid contaminant treatment (Bags)-place the bag into your liquid sample where it will dissolve and destroy all traces of EtBr contaminant.

4. Economical:

Fisher Molecular Biology EtBr Destroyer Sprayer bottles can be refilled after use and the bags are available in both 10 and 20 pack. In comparison to the costs associated with properly disposing of hazardous materials the EtBr Destroyer products save you money in the long run. You can even re-use your buffer after treatment! One of the big economical benefits of

using this product is that after using the Fisher Molecular Biology EtBr Destroyer, the once-contaminated buffer can be filtrated and used again without worry.

5. Safe:

Fisher Molecular Biology EtBr Destroyer has been demonstrated by AMES test to safely and effectively destroy EtBr without any mutagenic effect. The AMES test result data supports that the genotoxicity of EtBr contaminated solution, treated by both the Fisher Molecular Biology EtBr Destroyer Bag and Fisher Molecular Biology EtBr Destroyer Sprayer was reduced significantly, and a negative result was determined. The blocking of mutagenic effect of Fisher Molecular Biology EtBr Destroyer has been demonstrated by Ames Test.

I. Protocol of EtBr Destroyer Sprayer for Destroying Ethidium Bromide

Step 1

Open the bottle cap of the sprayer and insert the sprayer head. The sprayer head has to be screwed onto the bottle tightly.

Step 2

Spray onto the contaminated target area. The liquid has to completely cover the entire contaminant.

Step 3

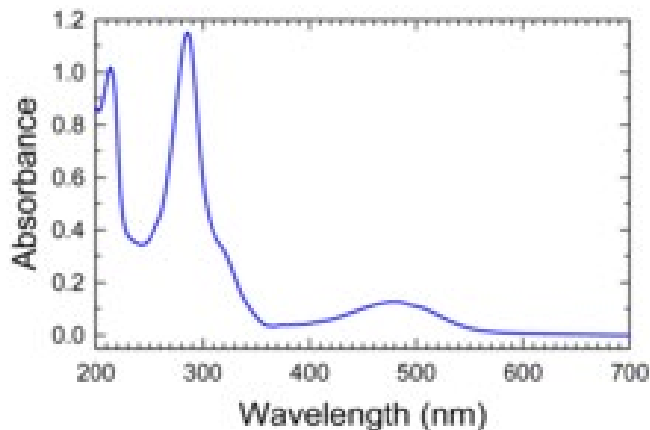
Spray onto the bench for a.) general protection of potential contaminated area. Spray the whole working area and wipe down after 5 minutes b.) for known contaminated area. Spray on the specific working area on the following working time:

Contaminated Area	Contaminate Conc.	EtBr Spray	Time
1cm ²	0.05mg	10ml (spray about 30 times)	90 mins
4cm ²	0.2mg	20ml (spray about 60 times)	90 mins

Step 4

Please use the portable UV light box (UV Wavelength 254nm) to ensure the Ethidium Bromide has been totally destroyed.

Figure II



II. Protocol of EtBr Destroyer for Destroying SYBR Green I

A. Spray on bench :

Use the same procedure as for the Ethidium Bromide working area. However please note that 1.) The decontamination time is different to that of EtBr containing gels and 2.) You must use UV light box (wavelength 488nm) to observe SYBR Green.

B. Spray on gels stained with SYBR Green

The procedure is the same as that of the Ethidium Bromide containing gels. However please note that 1.) The decontamination time is different to that of EtBr containing gels. For example, if you spray 0.9ml (about 3 sprays) on the gel stained with SYBR Green (concentration 0.5~1 μ g/ml), then after 1 hour, the SYBR Green will have been destroyed. Please use the UV light box (wavelength 488nm) to observe the SYBR Green.

II. Protocol of EtBr Destroyer for Destroying SYBR Gold

A. *Spray on bench :*

Use the same procedure as for the Ethidium Bromide working area. However please note that 1.) The decontamination time is different to that of EtBr containing gels and 2.) You must use UV light box (wavelength 488nm) to observe SYBR Gold.

B. *Spray on gels stained with SYBR Gol :*

The procedures are the same as the usage for Ethidium Bromide containing gels. However please note that 1.) The decontamination time is different to that of EtBr containing gels. For example, if you spray 0.9ml (about 3 sprays) on the gel stained with SYBR Gold (concentration 0.5~1 μ g/ml), then after 1 hour, the SYBR Gold will have been destroyed. Please use the UV light box (wavelength 488nm) to observe the SYBR Gold.

III. Protocol of EtBr Destroyer for Destroying SYPRO Orange

A. *Spray on bench :*

Use the same procedure as for the Ethidium Bromide working area. However please note that 1.) The decontamination time is different to that of EtBr containing gels and 2.) You must use UV light box (wavelength 488nm) to observe SYBR Orange.

B. *Spray on gels stained with SYPRO Orange :*

The procedure is the same as that of the Ethidium Bromide containing gels. However please note that 1.) The decontamination time is different to that of EtBr containing gels. For example, if you spray 5.4ml (about 18 sprays) on the gel stained with SYPRO Orange (concentration 0.5~1 µg/ml), then after 3 hours, the SYPRO Orange will have been destroyed. Please use the UV light box (wavelength 488nm) to observe the SYPRO Orange.

Ordering Information

Description	Cat. No.
EtBr Destroyer Sprayer Pack: 200ml bottles and 1 sprayer head	EDB-30

Ordering Information

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