
PRODUCT INFORMATION

DNA-EZ Reagents W EB-Be-Gone

Product information for EE4203:

Component:

Component	RT4171, 25 ml
EB-Be-Gone A	10 ml
EB-Be-Gone B	20 ml
Protocol	1

Storage:

Transportation and Storage at room temperature (15-25°C), Valid for 1 year.

Features

1. High Efficiency. Completely eliminate the fluorescence of EB.
2. Versatile. Suitable for disposal of EB from stock solution, electrophoresis buffer, and EB contaminated surface.
3. Simple. Easy-to-follow protocol.

Introduction

Ethidium Bromide (EtBr), commonly used in research laboratories as a stain for the visualization of nucleic acids in electrophoresis gels, is a toxic chemical and a potent mutagen. When used in nucleic acid staining, ethidium bromide appears as a red-orange to pink color under ultraviolet light and fluorescence increases proportionally when bound to double-stranded DNA. While it is not specifically regulated as a hazardous waste, the mutagenic properties may present health hazards and disposal concerns if it is not managed properly in the laboratory.

The EB-Be-Gone kit is designed for disposal of EB from EB contaminated solutions or surface. This kit use a chemical method to destroy the structure of Ethidium Bromide, and mutagenicity is greatly reduced to less than 1%. So the solution can be discarded directly after treatment.

Protocol

1. Mix the EB-Be-Gone A, EB-Be-Gone B and distilled water at a ratio of 1:2:30 to make a work solution.
 2. Dilute the EB contaminated solution to EB lower than 0.5 mg/ml.
 3. Add 1/4 volume of EB-Be-Gone A & B mixture to the contaminated solution, stir overnight at fume hood.
 4. Add 1/10 volume of saturated Sodium Bicarbonate solution, mix thoroughly.
 5. The solution can be discarded directly.
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