

# Favorgen EtBr Destroyer



## Description

**Favorgen EtBr Destroyer** is a specifically designed reagent effectively degrade and destroy the Ethidium Bromide and result in non-fluorescence and non-mutagenic remain. And also it has been demonstrated that its effectiveness of destructing the SYBR DYE.

This product is provided in two different formats for the treatment of solid or liquid Ethidium Bromide contaminant. The ready pack **Favorgen EtBr Destroyer Bag** is for the treatment of liquid Ethidium Bromide Contaminant. The **Favorgen EtBr Destroyer Sprayer** is for the treatment of solid Ethidium Bromide contaminant.



## Features

- **Effective:**

EtBr destroyer can destroy EtBr and other SYBR Dye. This effect can be monitored and confirmed by UV light exposure. Once destroyed, the fluorescence will disappear. The blocking of mutagenic effect of EtBr Destroyer has been demonstrated by Ames Test.

- **Fast:**

The EtBr solid contaminant can be destroyed within 5 min, and 2 liter of EtBr liquid contaminant can be destroyed within 30 minutes. (For 3 liter EtBr liquid contaminant, it will require 60 minutes.)

- **Specific:**

Two specific designs are for different purposes: EtBr solid contaminant treatment and EtBr liquid contaminant treatment, i.e. the sprayer format and the ready pack format.

- **Economical:**

1. EtBr destroyer sprayer content can be refilled after use up. The cost is very economic.
2. After EtBr Destroyer treatment, the Ethidium Bromide-Containing Buffer can be save for further use after being filtrated. The reduction of waste volume can save the cost of waste treatment.

- **Safe:**

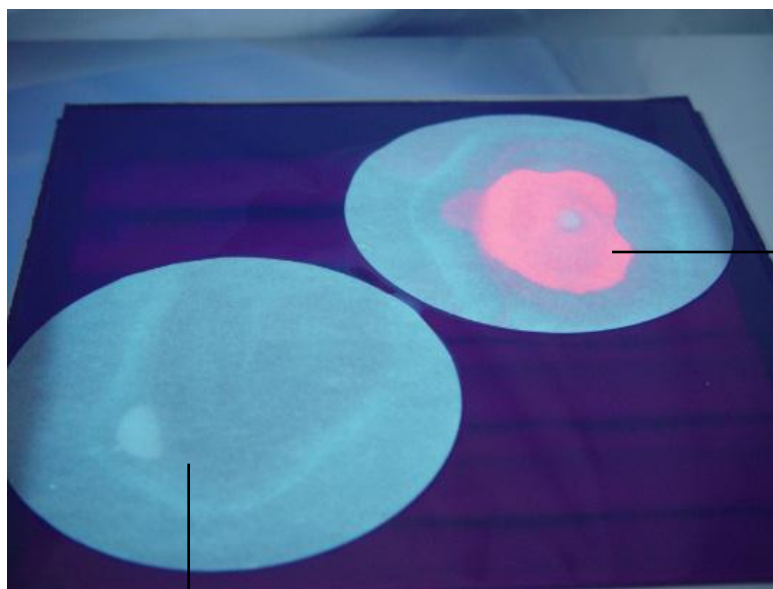
The blocking of mutagenic effect of EtBr Destroyer has been demonstrated by Ames Test.



# Applications I

**EtBr Destroyer Application for EtBr Contaminant**

## 1. EtBr Destroyer Application for Solid EtBr Contaminant



Non –treatment of solid  
EtBr Contaminant

Treatment of solid EtBr Contaminant

## 2. EtBr Destroyer Application for Liquid EtBr Contaminant



1. Before adding EtBr Destroyer



2. Add EtBr Destroyer

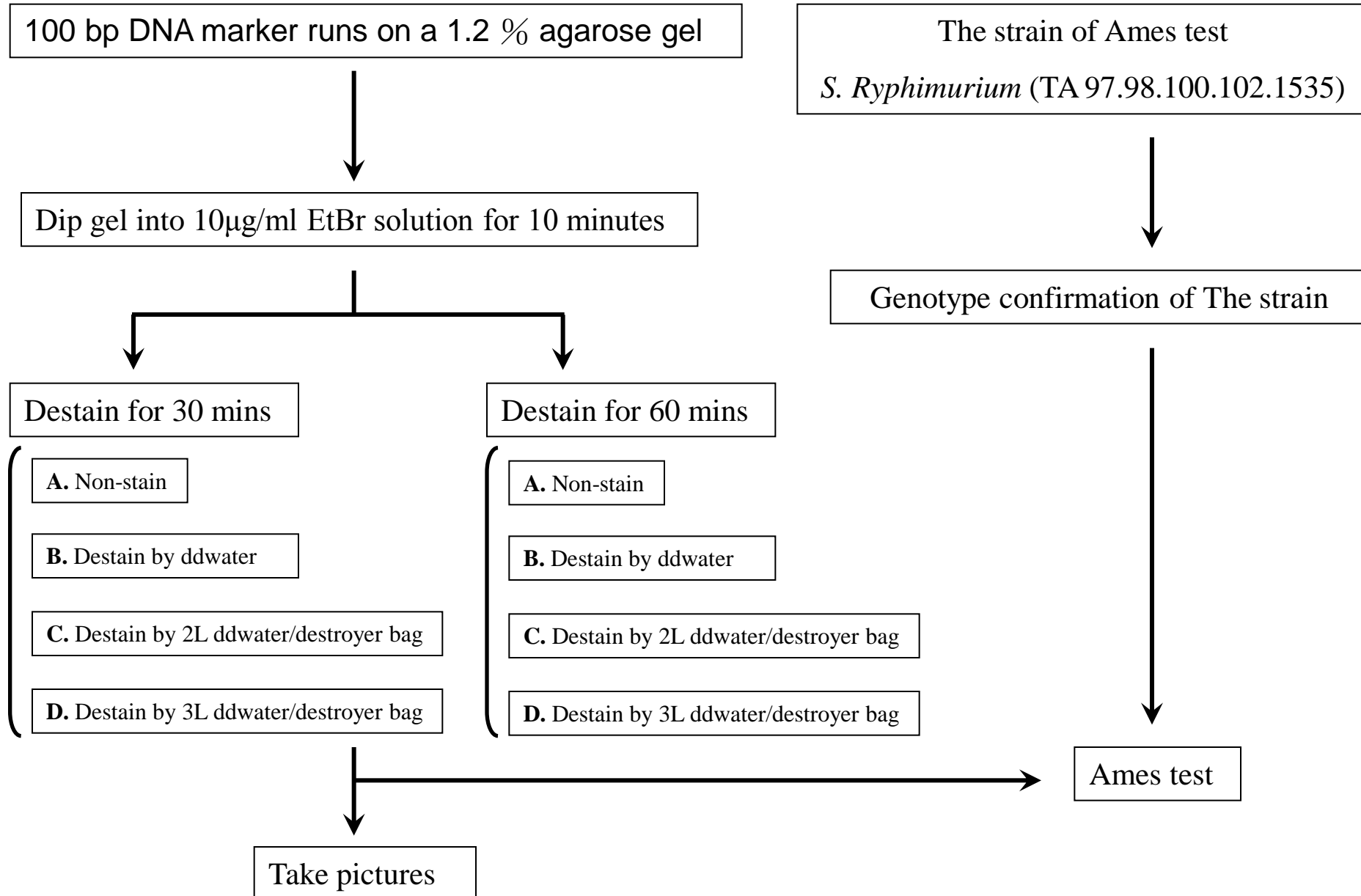


3. Completion

### Storage

Store this product at room temperature. Valid for 6-12 months after sealing off.

### 3. Favorgen EtBr Destroyer Bag Test



# The result of Favorgen EtBr Destroyer Bag Test



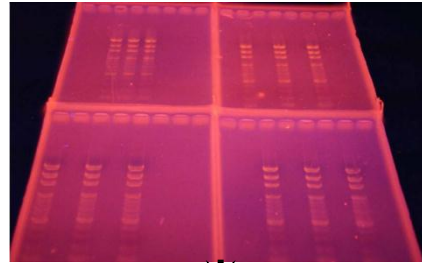
100 bp DNA marker runs on a 1.2 % agarose gel



Dip gel into 10 $\mu$ g/ml EtBr solution for 10 minutes



Take pictures in UV box



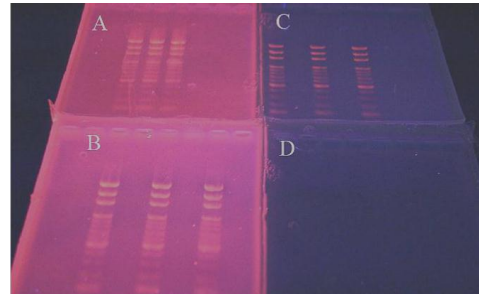
Destain for 30 mins



Take pictures in UV box

A. Non-stain

B. Destain by ddwater



C. Destain by 2L ddwater/Destroyer Bag

D. Destain by 3L ddwater/destroyer bag



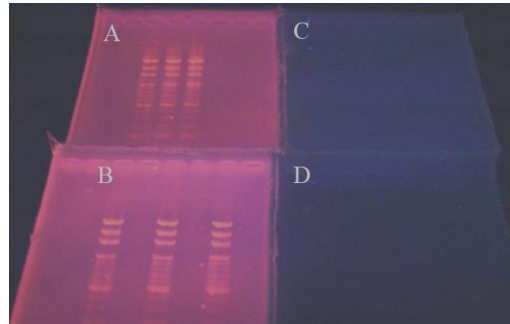
Destain for another 30 mins



Take pictures in UV box

A. Non-stain

B. Destain by ddwater



C. Destain by 2L ddwater/Destroyer Bag

D. Destain by 3L ddwater/destroyer bag



# Applications II

**EtBr Destroyer Application for SYBR DYE**





# **EtBr Destroyer (Bag) application for SYBR Green I**

# Test of Favorgen EtBr Destroyer (Bag and Sprayer) about SYBR Green I

100 bp DNA marker runs on a 1.2 % agarose gel

Gel is stained by SYBR Green I for 30min

Dip gel into 3 L  
H<sub>2</sub>O for 30 minutes

Dip gel into 3 L  
H<sub>2</sub>O + destroyer  
bag for 30 minutes

Take pictures

Dip gel into 3 L  
H<sub>2</sub>O for 30 minutes

Dip gel into 3 L  
H<sub>2</sub>O + destroyer  
bag for 30 minutes

Take pictures

Spray gel 3 times and  
wait for 30 minutes

wait for 30 minutes

Take pictures

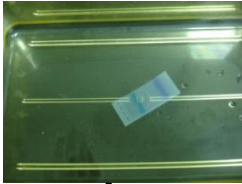
Spray gel 3 times and  
wait for 30 minutes

wait for 30 minutes

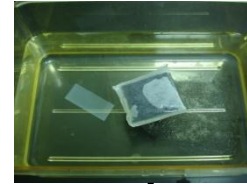
Take pictures

# Gel is stained by SYBR Green I for 30min

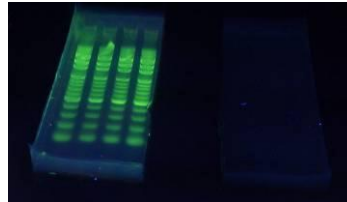
Destain by 3L H<sub>2</sub>O for 30 min



Destain by 3L H<sub>2</sub>O + Destroyer Bag For 30 mins



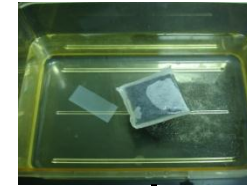
Take pictures



Destain by 3L H<sub>2</sub>O for 30 min again



Destain by 3L H<sub>2</sub>O + Destroyer Bag for another 30 mins



Take pictures





# **EtBr Destroyer (Sprayer) application for SYBR Green I**

# Gel is stained by SYBR Green I for 30min

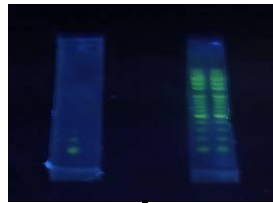
Spray gel 3 times and wait for 30 minutes



wait for 30 minutes



Take pictures



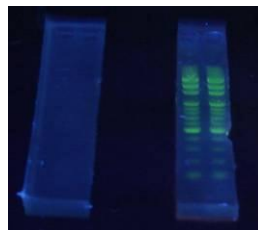
Spray gel additional 3 times and wait for more 30 minutes



wait for another 30 minutes



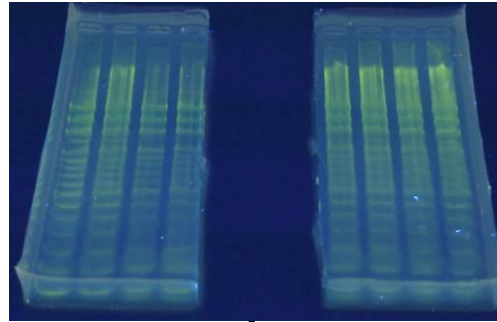
Take pictures





# **EtBr Destroyer (Bag) application for SYBR Gold**

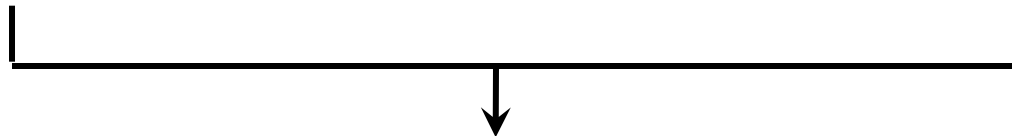
Gel is stained by SYBR Gold for 30min



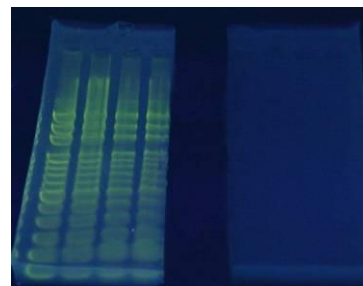
**Destain by 3L H<sub>2</sub>O for 30 min**



**Destain by 3L H<sub>2</sub>O + Destroyer Bag For 30 mins**



Take pictures

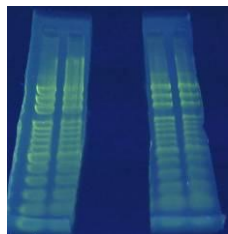




# **EtBr Destroyer (Sprayer) application for SYBR Gold**



Gel is stained by SYBR Gold for 30min

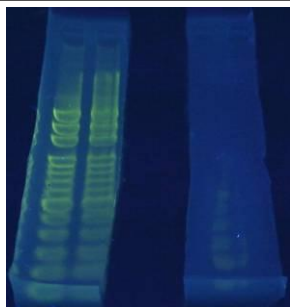


Spray gel 3 times and wait  
for 30 minutes

wait for 30 minutes



Take pictures

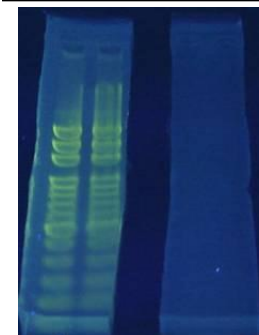


Spray gel 3 times and wait  
for 30 minutes

wait for 30 minutes



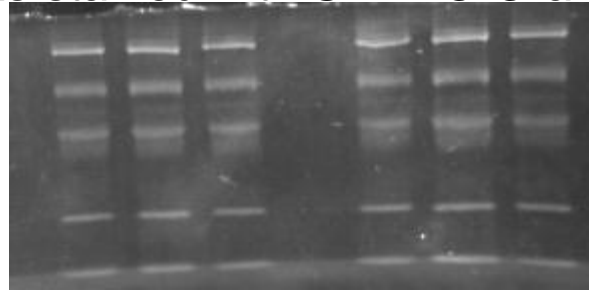
Take pictures





# **EtBr Destroyer (Bag) application for SYPRO ORANGE**

The gel was stained with SYPRO Orange for 1 hour



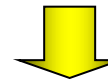
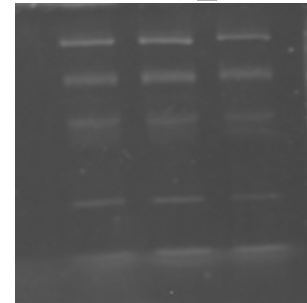
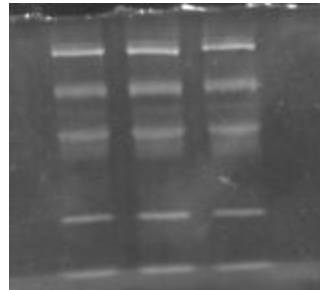
Destained with 3 L ddH<sub>2</sub>O



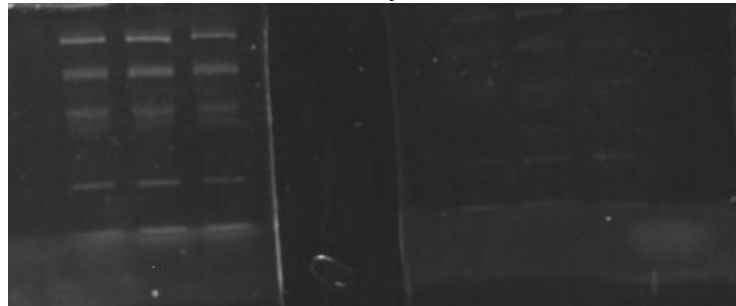
Destained with 3 L ddH<sub>2</sub>O + destroyer bag



Destained for 30 min



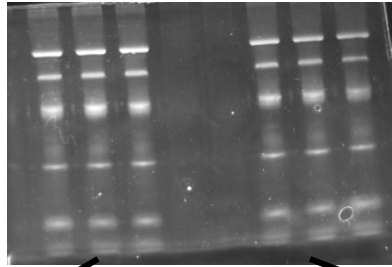
Destained for 30 min again





# **EtBr Destroyer (Sprayer) application for SYPRO ORANGE**

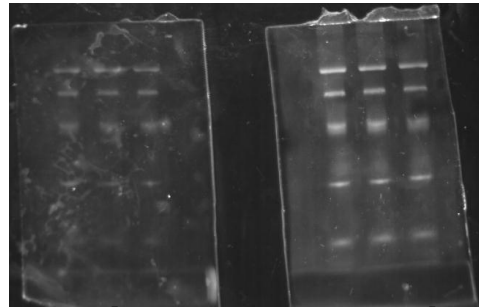
The gel was stained with SYPRO Orange for 1 hour



Destained with spraying EtBr destroyer sprayer 3 times (about 0.9 ml) and then placed for 30 min



Placed for 30 min



Spraying EtBr destroyer sprayer 3 times (about 0.9 ml) again and placed for 30 min

Placed for 30 min again

