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# *LiGreen™ Red Landing Dye*

Cat. #: M0055 Size: 2 ml

## Introduction

***LiGreen™ Red Landing Dye*** is is a safe and highly sensitive fluorescent stain for detecting nucleic acids in agarose gel. This single stain gives high sensitivity detection of double-stranded or single-stranded DNA and RNA. The stain is simply mixed with DNA samples, and run the gels, providing a simple and fast protocol. LiGreen™ Red Landing Dye is compatible with a standard 300 nm transilluminator, or a laser-based gel scanner using an EtBr filter.

LiGreen™ Red Landing Dye is a ready-to-use solution. The stain is premixed with DNA samples and/or DNA ladder at 1:5 ratio before running the gel. For example, for every 5 µl DNA samples, adding 1 µl of stain reagent. One vial (1 ml) of stain reagent can be used to run at least 1000 DNA samples.

Gel staining with LiGreen™ Red Landing Dye is compatible with downstream applications such as gel extraction and cloning. LiGreen™ Red Landing Dye is efficiently removed from DNA by phenol/chloroform extraction and ethanol precipitation.

## Package Information

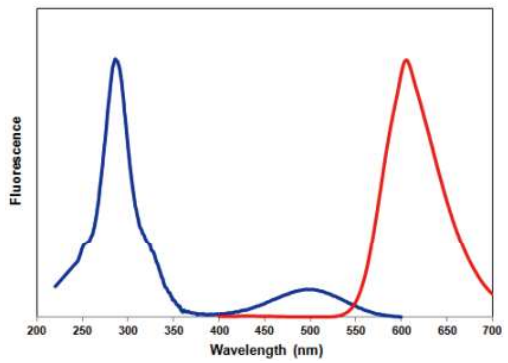
| Components | M0055 |
|---|---|
| LiGreen™ Red Landing Dye | 2 ml |

Ex/Em: 500/530 nm, bound to nucleic acid

## Storage

Store at -20°C and protect from light.

## Spectral Characteristics




Excitation (blue) and emission spectra (red) of LiGreen™ Red Landing Dye bound to dsDNA in TBE buffer

LiGreen™ Red Landing Dye

## Protocols

1. Prepare molten agarose gel solution, cast the gel and allow it to solidify using your standard protocol. (Unnecessary to add any DNA stain reagent.)

2. Mix the DNA samples and/or DNA ladder with SafeGreen Loading Dye at 5:1 ratio.

3. Load samples and run the gels using your standard protocol.

3. Image the stained gel with a transilluminator, or a laser-based gel scanner using a long path green filter such as a SYBR Filter or GelStar filter.