

## E-Gel® 50 bp DNA Ladder

**Cat. No. 10488099**

**Conc: 50 ng/μL**

**Size: 500 μL**

**Store at +4°C**

### Description

The E-Gel® 50 bp DNA Ladder is formulated for use with E-Gel® EX agarose gels. It is suitable for sizing linear double-stranded DNA fragments from 50 bp to 800 bp, and ideal for use with 2% E-Gel® agarose gel products. The E-Gel® 50 bp DNA Ladder contains the unique tracking dyes Xylene Cyanol FF (XCFF) and Tartrazine. These dyes allow you to visually track DNA migration during electrophoresis, and indicate when maximum resolution is achieved. The ladder consists of 16 blunt-ended fragments between 50 and 800 bp in multiples of 50 bp and an additional fragment at 2652 bp. The 350-bp band is 2 to 3 times brighter than other ladder bands to provide internal orientation. This ladder is not designed for quantitation.

### Storage Buffer

Proprietary

### Tracking Dye

0.0094% XCFF

0.0625% Tartrazine

### Stability

6 months when properly stored

Part no. 100007871

MAN0001727

Rev. Date: 31 Aug 2009

## Product Qualification

The Certificate of Analysis provides detailed quality control information for each product. Certificates of Analysis are available on our website at [www.invitrogen.com/support](http://www.invitrogen.com/support).

## Recommended Procedure

### E-Gel<sup>®</sup> EX Agarose Gel

Use 150-250 ng of the E-Gel<sup>®</sup> 50 bp DNA Ladder for each lane of an E-Gel<sup>®</sup> EX agarose gel requiring a ladder. Prepare the E-Gel<sup>®</sup> 50 bp DNA Ladder as described below for loading on a single lane:

E-Gel <sup>®</sup> 50 bp DNA Ladder	3–5 $\mu$ L
Deionized Water	to 20 $\mu$ L

### E-Gel<sup>®</sup> Agarose Gel

Use 500 ng–1  $\mu$ g of the E-Gel<sup>®</sup> 50 bp DNA Ladder for each lane of an E-Gel<sup>®</sup> agarose gel requiring a ladder. Prepare the E-Gel<sup>®</sup> 50 bp DNA Ladder as described below for loading on a single lane:

E-Gel <sup>®</sup> 50 bp DNA Ladder	10–20 $\mu$ L
Deionized Water	to 20 $\mu$ L

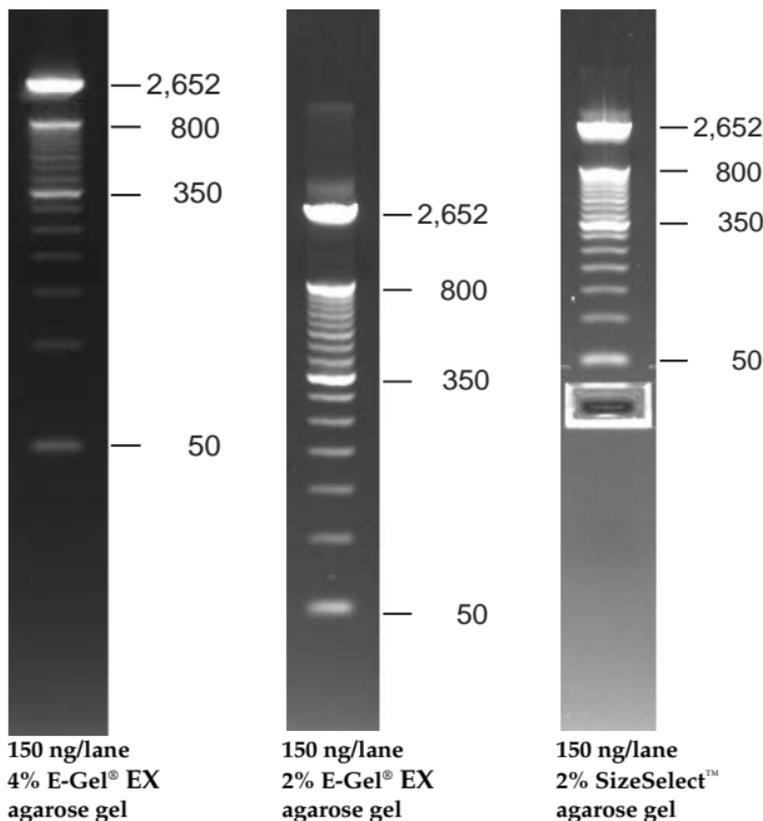
### E-Gel<sup>®</sup> with SYBR Safe<sup>®</sup>

Use 1  $\mu$ g of the E-Gel<sup>®</sup> 50 bp DNA Ladder for each lane of an E-Gel<sup>®</sup> agarose gel with SYBR Safe<sup>®</sup> requiring a ladder. Load the volume of E-Gel<sup>®</sup> 50 bp DNA Ladder indicated below on a single lane:

E-Gel <sup>®</sup> 50 bp DNA Ladder	20 $\mu$ L
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### Note:

**Do not heat** before loading.

**E-Gel® 50 bp DNA Ladder on E-Gel® EX Agarose Gels**

**Note:** Ladders run on 4% E-Gel® EX agarose gel with E-Gel® iBase Power System using 'E-Gel EX 4%' program setting for 15 minutes; on the 2% E-Gel EX agarose gel using 'E-Gel® EX 1-2%' program setting for 10 minutes; and the 'SizeSelect 2%' program setting for 8 minutes. Bands were visualized by E-Gel® Safe Imager™.

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