

E-Gel[®] Low Range Quantitative DNA Ladder

Cat. No. 12373-031

Introduction

The E-Gel® Low Range Quantitative DNA Ladder is designed for use as a molecular weight standard and for estimating the amount of DNA. The important features of the ladder are listed below:

- Consists of five linear double-strand DNA fragments (100-2000 bp)
- Suitable for estimating molecular weight and quantity of DNA fragments in agarose gel electrophoresis
- Provided in a ready-to-use format
- Visualized by ethidium bromide staining

Specifications

Contents: 1 ml of E-Gel® Low Range Quantitative DNA Ladder.

Sufficient ladder is provided for 100 applications.

Conc. 175 ng/10 µl

Storage Buffer: 8 mM Tris-HCl, pH 7.5; 1 mM EDTA; 5% glycerol;

and 0.005% Orange G.

Storage: Store at room temperature or 4°C.

Directions for Use

The E-Gel® Low Range Quantitative DNA Ladder is provided in a ready-to-use format. There is no need to heat the ladder prior to loading. Use loading volumes listed below to obtain the best results:

Gel	Ladder	Water	Total Volu	ıme
Standard agarose	10 μl		10 μl	
E-Gel® 96	10 μl	10 μl	$20 \mu l$	
E-Gel® double comb				
Marker lane	5 µl	5 µl	10 μl	
Sample lane	10 μl	10 μl	$20 \mu l$	
E-Gel® single comb	10 μl	10 μl	$20 \mu l$	
Part No. 12373031.PPS			I	Doc. Rev. 081602

This product is distributed for laboratory research only. CAUTION: Not for diagnostic use. The safety and

efficacy of this product in diagnostic or other clinical uses has not been established.

For technical questions about this product, call the Invitrogen Tech-Line $^{\mbox{\tiny SM}}$ U.S.A. 800 955 6288

Example

10 µl of E-Gel® Low Range Quantitative DNA Ladder was diluted with 10 μl of water and loaded onto a 2% E-Gel® double comb gel (see figure below). Electrophoresis of 10 µl of the ladder results in bands containing 100, 40, 20, 10, and 5 ng of DNA, respectively.



Product Qualification

Agarose gel analysis must clearly show all bands (2000, 800, 400, 200, and 100 bp). Sharpness, relative intensity, and absence of background are evaluated relative to a control lot by agarose gel analysis.

Limited Use Label License No. 40: DNA Mass Ladder

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