

## Lonza DNA Ladders

### Introduction

Lonza DNA Ladders are precision manufactured to provide rapid and easy size determination of your DNA samples. Each band has an ideal 50% G-C content for precise sizing and sharp resolution. Our ladders are free from contaminating plasmid DNA so they have minimal background.

### Description

**50330 - 20 bp DNA Ladder:** 25 fragments from 20 bp to 500 bp, in 20 bp increments. The band at 200 bp stains brighter to aid identification.

Supplied at 200 ng/μl; 150 μl volume: 150 applications.

**50320 - 20 bp Extended Range DNA Ladder:** 50 fragments from 20 bp to 1,000 bp, in 20 bp increments. Bands at 200 bp and 500 bp stain brighter to aid identification.

Supplied at 200 ng/μl; 150 μl volume: 100 applications.

**50321 - 100 bp DNA Ladder:** 10 fragments from 100 bp to 1,000 bp, in 100 bp increments.

Supplied at 100 ng/μl; 160 μl volume: 100 applications.

**50322 - 100 bp Extended Range DNA Ladder:** 30 fragments from 100 bp to 3,000 bp, in 100 bp increments. Bands at 1,000 bp and 3,000 bp stain brighter to aid identification.

Supplied at 200 ng/μl; 150 μl volume: 100 applications.

**50323 - 500 bp DNA Ladder:** 16 fragments from 500 bp to 8,000 bp, in 500 bp increments. The band at 5 kb stains brighter to aid identification.

Supplied at 200 ng/μl; 300 μl volume: 200 applications.

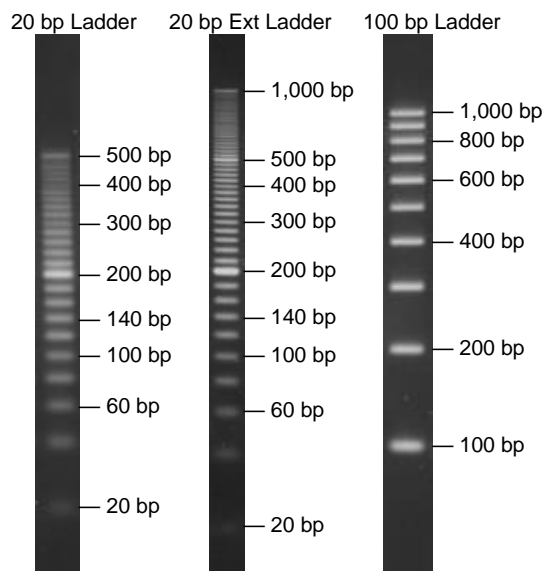
### Contents

Lonza DNA Ladders are supplied at various concentrations in TE Buffer and each includes a vial of 6X Sample Loading Buffer: 1 ml total volume 15% w/v Ficoll® 400, 0.06% w/v Bromophenol blue, 0.06% w/v Xylene cyanol FF, 30 mM EDTA.

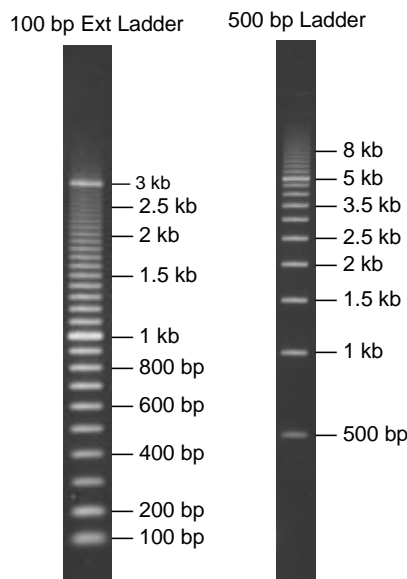
### Storage

Store at 2°C-8°C. Contact Scientific Support for shelf life information.

#### Use with Lonza MetaPhor™ NuSieve™ 3:1 and NuSieve™ GTG™ Agarose



#### Use with Lonza SeaKem® LE, SeaKem® GTG™ SeaPlaque™ and SeaPlaque™ GTG™ Agarose



## Use of Modified Loading Buffer

The 6X gel loading buffer produces a final 5 mM EDTA concentration, and can be substituted for the 20 mM EDTA used to stop restriction digests, PCR, and other reactions before electrophoresis.

## Amounts to Load

For a 15  $\mu$ l total load volume

Description	Ladder	6X Loading Buffer	Distilled Water
20 bp DNA Ladder	1.0 $\mu$ l	2.5 $\mu$ l	11.5 $\mu$ l
20 bp Ext DNA Ladder	1.5 $\mu$ l	2.5 $\mu$ l	11.0 $\mu$ l
100 bp DNA Ladder	1.6 $\mu$ l	2.5 $\mu$ l	10.9 $\mu$ l
100 bp Ext DNA Ladder	1.5 $\mu$ l	2.5 $\mu$ l	11.0 $\mu$ l
500 bp DNA Ladder	1.5 $\mu$ l	2.5 $\mu$ l	11.0 $\mu$ l

Adjustments may be made for different staining methodology, well sizes and individual preferences. For complete band resolution, run the DNA Ladders the full length of the gel.

Lonza also offers these ladders in a SimplyLoad™ DNA Ladder format, premixed with loading dye and ready-to-load on your gels. Contact Scientific Support for more information.

## Related Products

GelStar® Nucleic Acid Gel Stain  
Latitude™ HT Precast Agarose Gels  
Latitude™ Precast Agarose Midigels  
PAGEr™ Gold TBE Precast Gels  
Reliant™ Gel System  
Lonza Agarose

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