

Catalog Number: NP100002 (11445-100) **Size:** 100 Lanes

Important Information: The product you have received is authorized for laboratory research use only. The product has not been qualified or found safe and effective for any human or animal diagnostic or therapeutic application. Uses other than the labeled intended use may be a violation of applicable law.

Concentration: 502 ng/10 µL.

Composition of Storage Buffer: 10 mM Tris-HCl (pH 8.5), 1 mM EDTA, 10% glycerol, 0.02% bromophenol blue, and 0.17% SDS.

Stability and Storage: Stable at 22 to 25°C. -20°C recommended for long term storage. Aliquot product to avoid repeated freezing and thawing cycles.

Description: The PCR DNA Mass Ladder is the perfect choice for analysis of DNA fragments less than 2000 bp. The ladder contains a total of eleven bands ranging from 100 to 2000 bp in 100bp increments. The bands contain varying amounts of DNA ranging from 22 ng to /10 µL to 110 ng/10 µL, with the 500 bp band being more intense to provide a reference point (see figure). The 100 bp band may appear faint due to diffusion during electrophoresis. The ladder is supplied in loading buffer, ready-to-use on agarose and polyacrylamide gels. It is suitable with both TBE and TAE electrophoresis systems.

Quality Control: Agarose gel analysis shows that all bands are present at the expected location and band intensity.

Suggestions for use:

- **Important** - Mix ladder briefly before use. DO NOT heat the ladder.
- Load 10 µL of ladder per lane.
- Agarose gel electrophoresis: Prepare 1% gel. The dye should migrate 60 - 70% the length of the gel.
- Polyacrylamide gel electrophoresis: Prepare 8% gel. The dye should migrate approx. 90% the length of the gel.
- Ethidium bromide (0.5 µg/mL) is the recommended gel stain.

