



NZYDNA Ladder II

Catalogue numbers:

MB04301, 200 lanes

MB04302, 500 lanes

Description

NZYDNA Ladder II is a ready-to-use molecular weight marker, specially designed for easy size determination and DNA quantification. For best results using our ladder range we recommend using NZYTech agaroses.

Sizing

NZYDNA Ladder II produces a pattern of 9 regularly spaced bands, ranging from 1400 to 10000 bp.

Quantification

When using the standard loading of 5 μL per lane (414 ng of DNA) each band corresponds to a precise quantity of DNA (Figure 1).

Storage conditions

NZYDNA Ladder I should be stored at -20°C until first use. Thereafter, the product can be stored at 4°C for up to 6 months. Avoid multiple freeze thaw cycles, as these can damage the product.

Shipping conditions

The product can be shipped in a range of temperatures from dry ice to room-temperature.

Product life

The expiration date indicates the period of time over which NZYTech will guarantee 100 % effectiveness of this product if handled and stored under the recommended storage conditions.

Troubleshooting

Ladder is not sinking upon loading

Vortex briefly before loading

To prevent degradation as a result of DNase contamination after opening

Make aliquots with a small quantity of the ladder

Quality control assay

Nuclease assay

To test for DNase activity, 20 μL of NZYDNA Ladder II are incubated for 14-16 hours at 37°C and DNA integrity analysed through agarose gel electrophoresis.

Functional assay

5 μL of NZYDNA Ladder II is loaded onto a 1% (w/v) agarose gel with TAE buffer and separated by electrophoresis to check the intensity and the pattern of bands. It is expected to observe 9 regularly spaced bands, as presented in Figure 1.

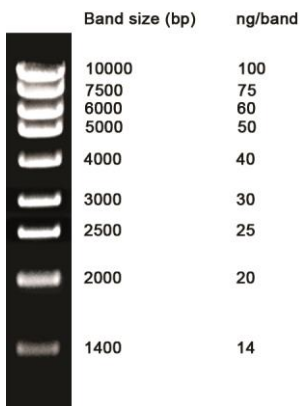


Figure 1. Precisely 5 μ L of NZYDNA Ladder II were electrophoresed in a 1% (w/v) electrophoresis grade agarose (MB027) gel. The gel was buffered with TAE (v/v) and stained with GreenSafe Premium (MB13201).

V2001

Certificate of Analysis

Assay	Result
Functional Assay	Pass
Nuclease Assay	Pass

Approved by:

Patricia Ponte
Senior Manager, Quality Systems

For research use only.

