



NZYDNA Ladder IV

Catalogue numbers:

MB05801, 50 lanes
MB05802, 150 lanes

Description

NZYDNA Ladder IV is a ready-to-use molecular weight marker, specially designed for easy size determination of small DNA fragments in agarose gels. Gels need to contain at least a 4% (w/v) concentration of agarose to allow the clear identification of each band. For best results using our ladder range we recommend using NZYTech agaroses.

Sizing

NZYDNA Ladder IV produces a pattern of 25 regularly spaced bands, ranging from 20 to 500 bp in 20 bp increments. The band at 200 bp stains brighter to help identification.

Storage conditions

NZYDNA Ladder IV 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 blue ice.

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.

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 IV 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 4% (w/v) agarose gel with TBE buffer and separated by electrophoresis to check the intensity and the pattern of bands. It is expected to observe 25 regularly spaced bands, as presented in Figure 1.

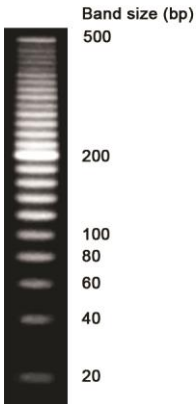


Figure 1. Precisely 5 μ L of NZYDNA Ladder IV were electrophoresed in a 4% (w/v) electrophoresis grade agarose (MB027) gel. The gel was buffered with TBE (v/v) and stained with GreenSafe Premium (MB13201).

V2101

Certificate of Analysis

Assay	Result
Functional Assay	Pass
Nuclease Assay	Pass

Approved by:

Patrícia Ponte
Senior Manager, Quality Systems

For research use only.

