



NZYDNA Ladder III

Catalogue numbers:

MB04401, 200 lanes
MB04402, 500 lanes

Batch 16021

Expiry date 02/2019

Description: NZYDNA Ladder III 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 III produces a pattern of 14 regularly spaced bands, ranging from 200 to 10000 bp.

Quantification: When using the standard loading of 5 μ L per lane (714 ng of DNA) each band corresponds to a precise quantity of DNA (Figure 1).

Storage conditions: NZYDNA Ladder III 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: Room temperature.

Product life: Three years.

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 μ L of NZYDNA Ladder III are incubated for 14-16 hours at 37 °C and DNA integrity analysed through agarose gel electrophoresis.

Functional assay

5 μ L of NZYDNA Ladder III 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 14 regularly spaced bands as presented in Figure 1.

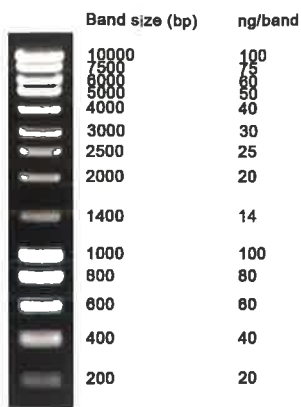


Figure 1. Precisely 5 μ L of NZYDNA Ladder III were electrophoresed in a 1% (w/v) electrophoresis grade agarose (MB027) gel. The gel was buffered with TAE (v/v) and stained with GreenSafe Premium (MB13201).

Revised 05/15

Certificate of Analysis

Assay	Result
Nuclease assay	Pass
Functional assay	Pass

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