

NZYDNA Ladder VIII

Catalogue numbers:

MB17501, 200 lanes MB17502, 500 lanes

Description

NZYDNA Ladder VIII 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 VII produces a pattern of 9 regularly spaced bands, ranging from 200 to 5000 bp.

Quantification

When using the standard loading of 5 μ L per lane (750 ng of DNA) each band corresponds to a precise quantity of DNA (Figure 1).

Storage conditions

NZYDNA Ladder VIII 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

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 VIII are incubated for 14-16 hours at 37°C and DNA integrity analysed through agarose gel electrophoresis.

Functional assay

 $5 \ \mu L$ of NZYDNA Ladder VIII 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.

	Band size (bp)	ng/band	
			Figure 1. Precisely 5 μ L of NZYDNA Ladder VIII
	5000	100	were electrophoresed in a 1% (w/v) electrophoresis grade agarose (MB027) gel. The
-	3000	60	gel was buffered with TAE (v/v) and stained with GreenSafe Premium (MB13201).
-	2000	40	with creensare remain (wb15201).
-	1400	116	V2001
	1000	100	
	800	80	
	600	110	
	400	106	
-	200	36	

Certificate of Analy	<i>i</i> sis	
Assay	Result	
Nuclease Assay	Pass	
Functional Assay	Pass	
Approved by:		
Patrícia Ponte		

For research use only.



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