dsRNA Ladder

1-800-632-7799
info@neb.com
www.neb.com

N0363S

25 gel lanes (25 µg) **Lot: 0191505** **Exp: 5/17**

500 µg/ml **Store at –20°C**

Description: The dsRNA Ladder is a set of 7 annealed double-stranded RNA molecules produced by *in vitro* transcription of 14 linear DNA templates. The ladder sizes are: 500, 300, 150, 80, 50, 30 and 21 base pairs. All have 2-base, 3´ extensions. The 80 base pair fragment is at double intensity to serve as a reference point.

This ladder is suitable for use as a size standard in dsRNA and RNAi analysis on both non-denaturing polyacrylamide and agarose gels.

Supplied in: 10 mM Tris-HCl (pH 8.0) and 1 mM EDTA.

Usage Recommendation: This marker was not designed for precise quantification of dsRNA mass.

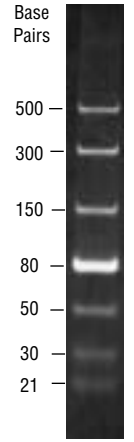
Notes: Double-stranded RNA is sensitive to degradation by ribonucleases, even though it is more resistant than single-stranded RNA.

To avoid ribonuclease contamination: wear gloves, use RNase-free water for gels and buffers, wash equipment with detergent and rinse throughly with RNase-free water.

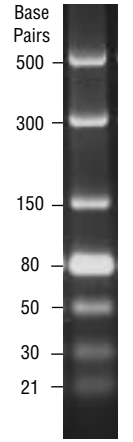
Excessively long run times or high voltage can cause degradation of the bands on the gel. We recommend loading 1.0–1.5 µg of dsRNA Ladder, a running voltage of 4–10 V/cm , adding ethidium bromide to gels and running buffer at a final concentration of 0.5 µg/ml to effectively stain the bands during electrophoresis.

References:

1. Sambrook, J., Fritsch, E.F. and Maniatis, T. (1989). *Molecular Cloning*: *A Laboratory Manual*, (2nd ed.), (pp. 7.43–7.45). Cold Spring Harbor: Cold Spring Harbor Laboratory Press.
2. Liu, Y-C. and Chou, Y-C. (1990) *Biotechniques* 9, 558.
3. Dong Ma, New England BioLabs, Inc., unpublished observations.



1 µg of dsRNA Ladder was visualized by ethidium bromide staining on a 6% Polyacrylamide gel. 10 V/cm.



1.5 µg of dsRNA Ladder was visualized by ethidium bromide staining on a 2% TBE agarose gel 10 V/cm.

CERTIFICATE OF ANALYSIS

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2. Liu, Y-C. and Chou, Y-C. (1990) *Biotechniques* 9, 558.
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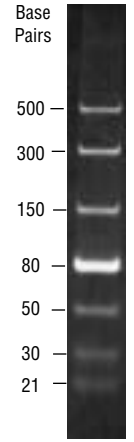
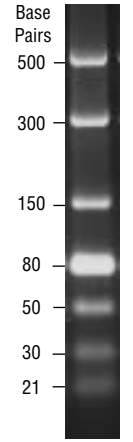


1 µg of dsRNA Ladder was visualized by ethidium bromide staining on a 6% Polyacrylamide gel. 10 V/cm.



1.5 µg of dsRNA Ladder was visualized by ethidium bromide staining on a 2% TBE agarose gel 10 V/cm.

CERTIFICATE OF ANALYSIS