

RiboReady™ RNA Ladders

<u>Code</u>	<u>Description</u>	<u>Size</u>
N603-KIT	RiboReady™ 100b RNA Ladder	1 Kit
N604-KIT	8 bands from 100 to 1000 bases	1 Kit
	RiboReady™ 1kB RNA Ladder	
	9 bands from 200 to 4000 bases	
	<i>Each kit includes:</i>	
	<i>2 tubes of RNA Ladder lyophilized powder (25 loads each tube for 50 lanes total per kit),</i>	
	<i>1 tube of 1X loading (reconstitution) buffer;</i>	
	<i>1 tube of 2x loading buffer</i>	
	<i>Each kit provides sufficient material for 50 x 10µl loads of RNA markers.</i>	

General Information:

RiboReady™ RNA ladders are made for precise sizing of RNA molecules in denaturing or native agarose gels. The RiboReady™ 100b RNA ladder is a set of 8 discrete RNA transcripts from recombinant DNA templates, ranging from 100 to 1,000 bases with a reference band of higher intensity at 500 bases. RiboReady™ 1kB RNA Ladder is composed of nine discrete bands ranging from 200 to 4000 bases, with a higher intensity reference band at 1,000 bases.

The kit format is optimized for ease of use and run-to-run consistency. Each kit includes:

- 2 separate vials of lyophilized RNA markers
- 1 tube of 1X loading buffer for reconstitution of RNA markers
- 1 tube of 2X loading buffer for RNA samples

Each tube of lyophilized RNA markers are reconstituted in 250 µl of 1X loading buffer. The 2X loading buffer is added to each RNA sample for consistency within the gel and reproducible results. The 1X and 2X loading buffers include tracking dye to monitor the progression of electrophoresis. Ethidium bromide is included as an RNA stain for immediate viewing of RNA bands with a standard u.v. transilluminator after electrophoresis.

Storage/Stability:

Store -20°C or -80°C. Unopened lyophilized RNA ladder can be stored up to 6 months at -20°C and up to one year at -80°C without degradation. Repeated freeze thaw cycles of the reconstituted RNA ladder will lead to eventual loss of quality and smeared appearance on the gel.

Application Disclaimer

*For Research Use Only.
Not for Therapeutic or Diagnostic Use.*



Procedure:

RiboReady™ 1X Loading Buffer contains 33.3% formamide, 11.7% formaldehyde, 0.012% bromophenol blue, 0.05mM EDTA, 0.012% ethidium bromide, and 0.7X MOPS solution. 2X Loading Buffer has an identical components at twice the concentration.

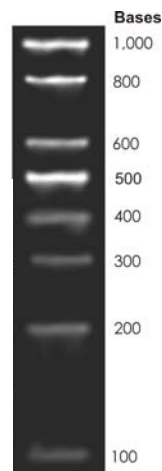
The 1X and 2X loading buffers contain dilute amounts of ethidium bromide, a carcinogen. Handle with appropriate care and dispose of properly.

1. RiboReady™ RNA Ladder reconstitution: Add 250µl of RiboReady™ 1X loading buffer to one vial of lyophilized ladder and vortex gently to resuspend.

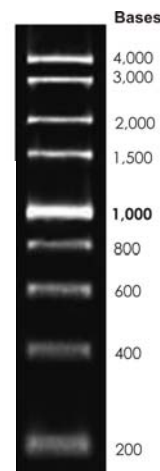
This will provide 25 loadings of the RNA molecular weight ladder at 10 µl per well. Unused reconstituted markers should be stored at -20°C. Storing the resuspended markers into single use aliquots is recommended since multiple freeze-thaw cycles can lead to RNA degradation and band smearing.

2. Heat 10µl of the reconstituted RNA Ladder at 80°C for 10 minutes.
3. Incubate on ice for 1 minute.
4. RNA samples: Dilute 1 part sample with 1 part RiboReady™ 2X Loading Buffer. Follow steps 2 and 3 in the above procedure.
5. Load 10 µl RiboReady™ RNA ladder and appropriate volume of samples on an 1- 2% agarose gel.
6. Run gel according to standard procedure. The supplied loading buffers contain bromophenol blue tracking dye for following the progression of electrophoresis.
7. Visualize bands after the run using standard u.v. illumination.

There is no need to stain or destain the gel to visualize the RNA bands when the RiboReady™ 1X and 2X loading buffers are used.



10 µl of RiboReady™
100b RNA Ladder on a
1.8% formaldehyde
agarose gel



10 µl of RiboReady™
1kB RNA Ladder on a
1.2% formaldehyde
agarose gel

Related Products

Code

N580-30ml; N580-100ml;
N580-200ml

N632-2x0.5ml

N634-12x1ml

N633-12x1ml

0670-100G; 0670-250G,
0670-500G

E526-500ml

0493-500m

Product

RiboZol™ RNA Extraction
Reagent

Glycogen Solution 20mg/ml

TE Buffer, pH 7.0

RiboReserve™ RNA Storage
Solution

MOPS

MOPS 10X

Formaldehyde 37% Solution

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