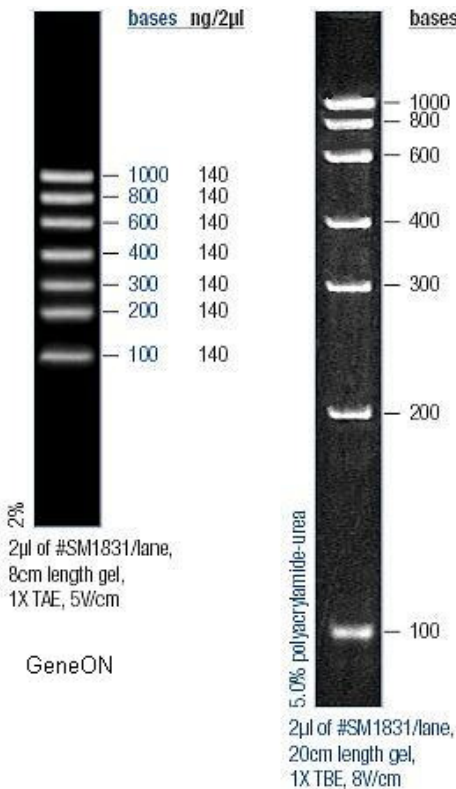


RNA Ladder LowRange

Features:

The ladder is designed for qualitative and quantitative analysis of RNA on agarose gels with ethidium bromide or Sybr-Green II as dyes.



Description:

Mixture of 7 RNA transcripts from specific templates including λ -sequences and a fragment of the pTZ19R poly linker, re-dissolved in 1 mM EDTA (pH 6.0). The RNA-Ladder is suitable for the analysis of RNA in native or denaturing agarose gels (1.7 – 2.5 %) and polyacrylamide gels (4 – 8 %) and can be stained by ethidium bromide.

Concentration: 0.5 mg RNA/ml

2X RNA Tracking dye:

95 % formamide, 0.025 % SDS, 0.025 % bromphenol blue, 0.025 % xylene cyanol, 0.025% ethidium bromide and 0.5 mM EDTA

Storage Buffer: 1 mM EDTA (pH 6.0)

Number of bands: 1000, 800, 600, 400, 300, 200 and 100 bases

Quality control/results:

- Absence of ribonucleases
- Determination of RNA concentration by spectrophotometer
- free of degraded RNA and NTP's

Electrophoresis:

- denaturing formaldehyde agarose with MOPS buffer
- denaturing polyacrylamide gel electrophoresis in TBE buffer
- native 2% agarose with TAE buffer
- denaturing glyoxal/DMSO agarose with sodium phosphate buffer

Loading for native or denaturing agarose- and polyacrylamide gels

Low Range RNA-Ladder has to be mixed with Loading buffer 2x before use (use the same amount of RNA relating to 1 µg of loaded marker)

- Thaw the ladder on ice and mix well by pipetting or gentle vortexing
- For 8 mm lane width prepare:
- 2 µl 2x Loading buffer with 2 µl RNA-Ladder
- Vortex briefly and spin down
- Heat at 70 °C for 10 minutes
- Chill quickly on ice and load the gel
- Use 0.5 µl (0.125 µg) per mm lane width

After finishing gel electrophoresis stain the gel with ethidium bromide.

Use the same volume of RNA samples and marker. Dilute the samples with 2x Loading buffer and DEPC water. Additionally the concentration of loading buffer in samples and marker should be equal.

Note: RNA is sensitive to degradation by ribonucleases. Working with any RNA Ladder of GeneON all components have to be prepared fresh. All required tools and consumables should be treated with e.g. diethyl pyrocarbonate.

Protect your hands with resistant gloves and your eyes with goggles!

Transportation: Shipped on blue ice

Cat.-no	Description	Amount
300021	RNA Ladder LowRange, 100 - 1000 b	5 x 10 µg
300022	RNA Ladder LowRange, 100 - 1000 b	15 x 10 µg

Storage: at -20 °C/ -70 °C for 12 months