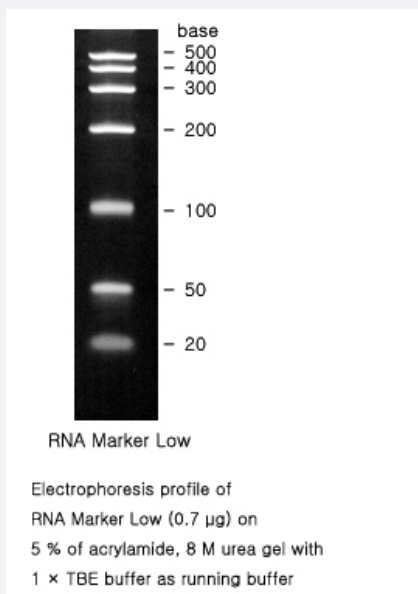


RNA Marker Low

Catalog # R0001

Size 50 ug

Applications



Specification

Product Description

The RNA Marker Low consists of seven single-stranded RNAs. The 20-base and 50-base RNA are synthesized by chemically (not phosphorylated). The 100, 200, 300, 400 and 500 bases are synthesized by in vitro transcription. The RNA Marker Low is suitable for determining size of single-stranded RNAs in denaturing polyacrylamide gel electrophoresis. The concentration of each RNA (20-500 base) in the marker is approximately 0.1 μ g/ μ l. It is useful for estimating of RNA amount. The RNA Marker Low can be visualized by ethidium bromide staining.

Quality Control Testing

After 18 hr incubation of the RNA Marker Low at 37°C, no visible degradation of the marker is observed in 5 % polyacrylamide / 8M urea gel electrophoresis.

Recommend Usage

1 μ l (0.7 μ g) RNA marker low mix with 5 μ l of gel loading buffer.

Storage Buffer

In 10 mM Tris-HCl (pH 8.0) buffer containing 1 mM EDTA.

Storage Instruction

Store at -80 °C. Repeated freeze/thaw cycles should be avoided.

Note

RNA is very sensitive to degradation by nucleases. To avoid damaging the RNA Marker Low, use extreme care during manipulations to prevent nuclease contamination. Wear gloves and use clean apparatus. Glassware should be pretreated with diethyl pyrocarbonate (DEPC). Nuclease-free disposable plasticware should be used. Solutions and reagents to mix the marker should be high grade and nuclease-free. To use, thaw the RNA Marker Low on ice and keep it on ice while using.

Applications

- Electrophoresis

Publication Reference

- [A pan-tumor-siRNA aptamer chimera to block nonsense-mediated mRNA decay inflames and suppresses tumor progression.](#)

Daniel Meraviglia-Crivelli, Helena Villanueva, Ashwathi Puravankara Menon, Angelina Zheleva, Beatriz Moreno, María Villalba-Esparza, Fernando Pastor.

Molecular Therapy. Nucleic Acids 2022 Sep; 29:413.

Application: Electrophoresis

- [Hepatitis C virus genomic RNA dimerization is mediated via a kissing complex intermediate.](#)

Shetty S, Kim S, Shimakami T, Lemon SM, Mihailescu MR.

RNA 2010 May; 16(5):913.

Application: Func, As s marker

- [Identification of small RNAs in Mycobacterium tuberculosis.](#)

Arnvig KB, Young DB.

Molecular Microbiology 2009 Jun; 73(3):397.

Application: NB