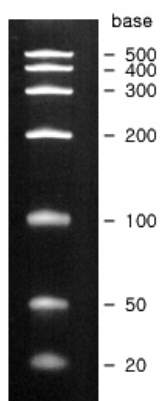


RNA Marker Low Easy

Catalog # R0002

Size 125 uL

Applications



RNA Marker Low Easy

Electrophoresis profile of
RNA Marker Low Easy
(5 μ l) on 5 % of acrylamide, 8 M urea
gel with 1 \times TBE buffer as running buffer

Specification

Product Description

The RNA Marker Low Easy is supplied in a ready-to-use mixture of loading dye (containing formamide, EDTA sodium salt, bromphenol blue) and RNAs. It is prepared for denaturing polyacrylamide gel electrophoresis but not agarose gel electrophoresis. The RNA Marker Low Easy has seven single-stranded RNAs, 20, 50, 100, 200, 300, 400 and 500 bases. The 20-base and 50-base RNA are synthesized by chemically (not phosphorylated), others are synthesized by in vitro transcription. In 5 μ l of the RNA Marker Low Easy, each RNA amount is approximately 100 ng. It is useful for estimating RNA amount approximately. The RNA Marker Low Easy can be visualized by UV light after ethidium bromide staining.

Regulatory Status

Please check the restriction regulation of formamide in your country.
Make sure that importing products which contain formamide is approved by your local administration.

Quality Control Testing

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

Recommend Usage

5 μ L is recommended for loading to a well (0.1 μ g of each RNA / 5 μ L)

Supplied Product

RNA Loading buffer PA

RNA Loading buffer PA is manufactured for denaturing polyacrylamide gel electrophoresis but not agarose gel electrophoresis. The loading buffer has a composition of 80% formamide, 10 mM EDTA sodium salt (pH 8.0), 0.025% bromophenol blue. Store RNA Loading buffer PA at -80 °C. Repeated freeze/thaw cycles should be avoided. It is 1 × to 2 × solution. Use more than one volume of RNA solution.

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 Easy, 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 product should be high grade and nuclease-free. To use, thaw the RNA Marker Low Easy on ice and keep it on ice while using. For heat denaturation, transfer aliquot of the RNA Marker Low Easy to another tube, then heat it. Avoid repeated heat denaturing.

Formamide is suspected to be harmful. It irritates the eyes and skin. Wear appropriate gloves and safety glasses. Put a lid tightly at the time of storage.

Applications

- Electrophoresis

Publication Reference

- [U2.3 Precursor Small Nuclear RNA in vitro Processing Assay.](#)

Chan Lin, Yujie Feng, Xueyan Peng, Jiaming Wu, Weili Wang, Yunfeng Liu.

Bio-Protocol 2021 Sep; 11(17):e4142.

Application: SDS-PAGE, Thale cress, Plant cells RNA