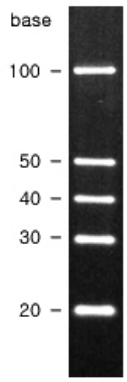
Small RNA Marker Easy

Catalog # R0008 Size 125 uL

Applications



Small RNA Marker Easy

Electrophoresis profile of
Small RNA Marker Easy (5 µl)
on 12.5 % of acrylamide, 7.5 M urea gel with
1 × TBE buffer as running buffer

Specification

Product Description	The Small RNA Marker Easy has five single-stranded RNAs, 20, 30, 40, 50 and 100 bases, which is useful for a research of small RNAs. The 20, 30, 40 and 50 bases are synthesized by chemically (non phosphorylated). The 100 bases is synthesized by in vitro transcription. The Small RNA Marker Easy is supplied in a ready-to-use mixture of loading dye and RNAs (containing formamide, EDTA sodium salt, bromphenol blue). It is manufactured for denaturing polyacrylamide gel electrophoresis. The Sm all RNA Marker Easy can be visualized by UV light exposure 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 hrs incubation of the Small RNA Marker Easy at 37°C, no visible degradation of the marker i s observed in 12.5 % polyacrylamide / 7.5 M urea gel electrophoresis.
Recommend Usage	5 uL/lane

Supplied Product	RNA Loading buffer PA RNA Loading buffer PA is manufactured for denaturing polyacrylamide gel electrophoresis. The loading buffer has a composition of 80% formamide, 10 mM EDTA sodium salt (pH 8.0), 0.025% bromphenol 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	The Small RNA Marker Easy is not prepared for estimating of RNA amount. RNA is very sensitive to degradation by nucleases. To avoid damaging the Small RNA Marker 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 marker should be high grade and nuclease-free. To use, thaw the Small RNA Marker Easy on ice and keep it on ice while using. For heat denaturation, transfer aliquot of the Small RNA Marker Easy to another tube, then heat it. Avoid repeated heat denaturizing. Formamide is suspected to be harmful. It is irritate to the eyes and skin. Wear appropriate gloves and safety glasses. Put a lid tightly at the time of storage.

Applications

- Electrophoresis

Publication Reference

- Identification of small RNAs abundant in Burkholderia cenocepacia biofilms reveal putative regulators with a potential role in carbon and iron metabolism.

  Sass A, Kiekens S, Coenye T.

  Scientific Reports 2017 Nov; 7(1):15665.

  Application: NB, Bacteria, Burkholderia cenocepacia RNA