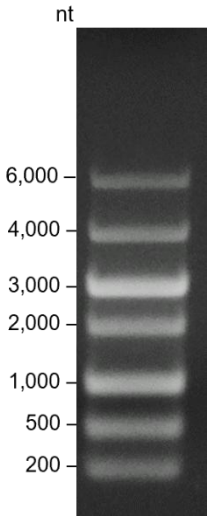
PRODUCT INFORMATION

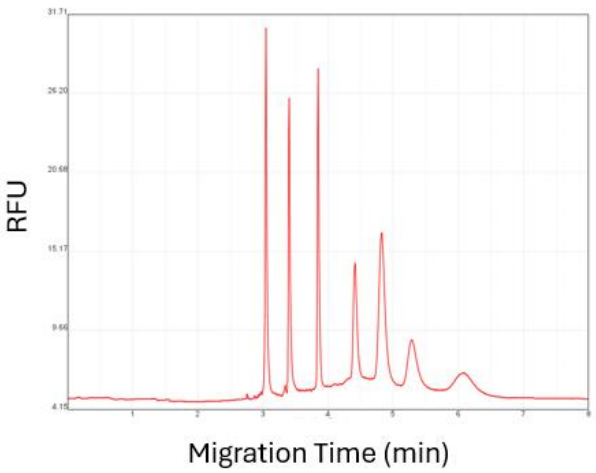
RNA Ladder

v. 250201

Catalog Number	CR00004-50UL
Package	50 µL
Description	The RNA Ladder, comprising seven single-stranded RNAs (0.2k, 0.5k, 1k, 2k, 3k, 4k, and 6k), is synthetically generated through *in vitro* transcription from a blend of seven linear DNA templates. This ladder serves as an effective tool for determining the size of single-stranded RNAs in native agarose gel electrophoresis. Visualization can be achieved using UV light post-ethidium bromide staining or nucleic acid safety dye staining. Notably, it acts as a reliable ssRNA size standard on native agarose gels.
Quality Control Testing	The banding pattern of RNA ladder on 0.9% TAE or TBE agarose gels shows clear identifiable bands at each fragment, when stained with nucleic acid safety dye under UV light.
Storage Buffer	1 mM sodium citrate buffer (pH 6.4)
Storage & Stability	This product is stable for 5 months after storage at -80°C and should be avoided from repeated freeze/thaw cycles.
Handling Instruction	For optimal storage, aliquot the reagent into smaller quantities and store at recommended temperature. Please promptly retrieve the required portion and return it to the appropriate storage temperature.
Recommended to Use	**Ladder preparation for Electrophoresis** 1. Mix 1 volume of RNA ladder with 3 volumes of 2X RNA Loading Dye. 2. Incubate at 65°C for 15 minutes. 3. Immediately place it on ice for 1-2 minutes. 4. Load 0.5 µL of the prepared ladder for every mm of gel lane width (e.g., 4 µL for an 8 mm lane).
Applications	Electrophoresis
Note	1. To avoid ribonuclease contamination, using RNase-free water is necessary for sample dilution. 2. We do not recommend use of these markers as a quantitative standard.



Agarose gel
2 ul/ lane
0.9% TAE agaros gel



Capillary Electrophoresis
High-Resolution capillary electrophoresis
separation of RNA Ladder

For research use only.

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