

## PRODUCT INFORMATION

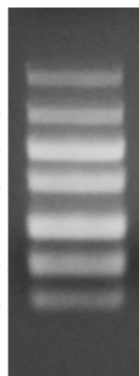
## RNA Ladder

v. 250501

<b>Catalog Number</b>	CR00004-50UL
<b>Package</b>	50 $\mu$ L
<b>Description</b>	The RNA Ladder, comprising seven single-stranded RNAs (0.2k, 0.5k, 1k, 2k, 3k, 4k, and 6k), is synthetically generated through <i>in vitro</i> 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.
<b>Quality Control Testing</b>	The banding pattern of RNA ladder on 1% TAE or TBE agarose gels shows clear identifiable bands at each fragment, when stained with nucleic acid safety dye under UV light.
<b>Storage Buffer</b>	1 mM sodium citrate buffer (pH 6.4)
<b>Storage &amp; Stability</b>	This product is stable for 10 months after storage at -80°C and avoid repeated freeze/thaw cycles.
<b>Handling Instruction</b>	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.
<b>Recommended to Use</b>	<b>Ladder preparation for Electrophoresis</b> <ol style="list-style-type: none"><li>1. Mix 1 volume of RNA ladder with 3 volumes of 2X RNA Loading Dye.</li><li>2. Incubate at 65°C for 5 minutes.</li><li>3. Immediately place it on ice for 1-2 minutes.</li><li>4. Load 0.2 <math>\mu</math>L of the prepared ladder for every mm of gel lane width (e.g., 1.6 <math>\mu</math>L for an 8 mm lane).</li></ol>
<b>Applications</b>	Electrophoresis
<b>Note</b>	<ol style="list-style-type: none"><li>1. To avoid ribonuclease contamination, using RNase-free water is necessary for sample dilution.</li><li>2. We do not recommend use of these markers as a quantitative standard.</li></ol>

Bases

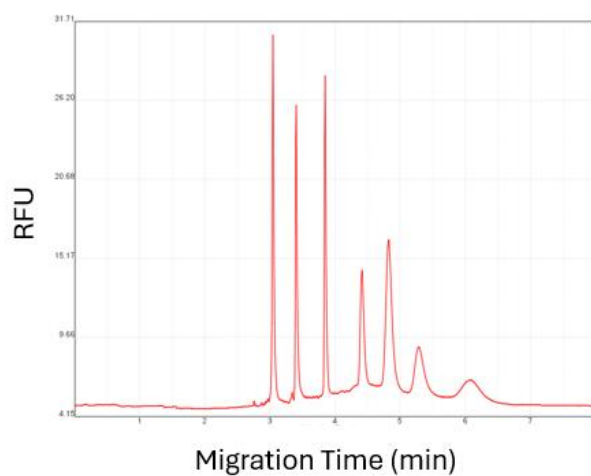
6,000—  
4,000—  
3,000—  
2,000—  
1,000—  
500—  
200—



**Agarose gel**

1 ul/ lane

1 % TAE agaros gel



**Capillary Electrophoresis**

High-Resolution capillary electrophoresis

separation of RNA Ladder

*For research use only.*