

## 2X RNA Loading Buffer

### Product description

2X RNA Loading Buffer is a modified, 2X concentrated RNA loading buffer. It can be used for both denaturing and non-denaturing agarose gel RNA electrophoresis, as well as polyacrylamide gel RNA electrophoresis. Its main components include SDS, EDTA, bromophenol blue, and xylene cyanol, and it is free of RNase contamination. Bromophenol blue and xylene cyanol serve as tracking dyes during electrophoresis, indicating the progress of the electrophoresis.

Nucleic acid stains can be added directly to the gel before electrophoresis, or the gel can be incubated in a nucleic acid staining solution after electrophoresis and then imaged. Recommended nucleic acid stains include Safe DNA Gel Stain (Catalog No. A8743) and Hyper Gel Red (Catalog No. A8746).

### Composition and storage conditions

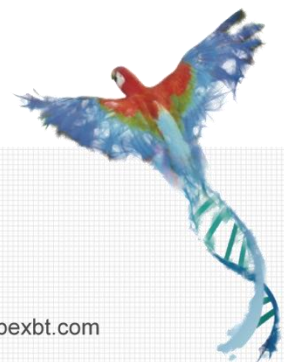
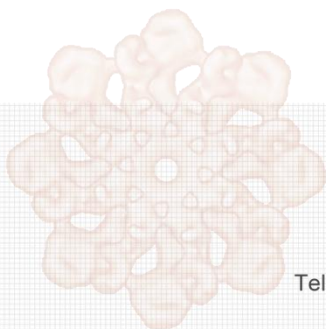
Components	Size	5 mL	Storage
2X RNA Loading Buffer		5 × 1 mL	-20°C
Shipping: Blue Ice		Shelf life: 12 months	

### Experimental operation

1. Use at a ratio of 1 volume of 2X RNA Loading Buffer added to 1 volume of RNA sample.
2. (Optional) For denaturation, incubate at 70°C for 5–10 min, then immediately place the reaction on ice.
3. Mix gently, briefly centrifuge, then load an appropriate amount of sample for electrophoresis.

### Notes

1. After opening, the product can be aliquoted according to usage. Avoid repeated freeze–thaw cycles as much as possible to prevent contamination and degradation of the product.
2. During the experimental procedure, take strict precautions to avoid RNase contamination to prevent RNA degradation.
3. For your safety and health, wear a lab coat and disposable gloves while handling this product.
4. This product is for research use only!



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**[www.apexbt.com](http://www.apexbt.com)**

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)