

2× RNA Loading Buffer

REF: EG26902S

Storage Condition

Store at -20°C for 2 years.

Components

Component	Amount
2× RNA Loading Buffer	1 ml

Description

This product contains 95% formamide, 0.02% SDS, 0.02% xylene cyanol, 0.02% bromophenol blue, and 1 mM EDTA. It is free of RNase contamination and suitable for denaturing and native polyacrylamide gel electrophoresis (PAGE) as well as agarose gel electrophoresis. Bromophenol blue and xylene cyanol serve as electrophoresis tracking dyes to monitor electrophoresis progress. This product does not contain nucleic acid stains. Please select an appropriate nucleic acid stain and staining method according to your experimental needs. The use of Safe Red DNA Stain (REF: CP18106) with the post-electrophoresis staining method is recommended.

Quality Control Assays

RNase Activity

Incubate 2 μ l of this product with 2 μ l of ssRNA Ladder 1000 (REF: EG26901) at 37 °C for 4 h, then perform electrophoresis. No change in RNA bands is observed.

Protocol

1. Mix the RNA sample with 2× RNA Loading Buffer at an equal volume.
2. If RNA denaturation is required, incubate the mixture from "Step 1" at 65~70 °C for 10 min, immediately place it on ice for 3 min, and then load the sample onto the gel. If denaturation is not required, directly load the mixture from "Step 1" onto the gel under RNAase-free conditions.

Notice

1. After opening the product, aliquot and store it appropriately according to usage to avoid RNase contamination or deterioration.
2. Please use RNase-free deionized water, RNase-free centrifuge tubes, and RNase-free pipette tips for all experiments.
3. Formamide is toxic. Please take protective measures while using this product.
4. This product is for research use only.