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ProductInformation

RNA Sample Loading Buffer

Catalog Number **R4268**
Storage Temperature –20 °C

Product Description
The RNA Sample Loading Buffer is formulated for use in RNA sample preparation for denaturing formaldehyde-agarose gel electrophoresis. The solution contains tracking dyes and ethidium bromide, so gel loading buffer and ethidium bromide staining are not required.

Suitable for use in formaldehyde-agarose gel electrophoresis of RNA.

RNase: None detected

Reagent
Composition:
62.5 % deionized formamide
1.14 M formaldehyde
1.25× MOPS-EDTA-sodium acetate buffer (Catalog Number M5755, diluted 1:8)
200 µg/ml bromophenol blue
200 µg/ml xylene cyanole FF
50 µg/ml ethidium bromide

Note: This solution contains ethidium bromide that can interfere with transfer of RNA to nylon or nitrocellulose membranes.

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability
Store the product at –20 °C.

Procedure
Add 1 volume of sample to 2-5 volumes of RNA Sample Loading Buffer and mix well. Just before loading, heat to 65 °C for 10 minutes, then chill on ice.

References
1. Sambrook, J. *et al*., Molecular Cloning: A Laboratory Manual, Cold Spring Harbor Laboratory Press (Cold Spring Harbor, NY: 1989) p. 7.43-7.45, 7.51

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