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Product Information

RNA Sample Loading Buffer without Ethidium Bromide

Product Code **R 1386**

Storage Temperature 0 to -20 °C

Product Description

RNA Sample Loading Buffer is formulated for use in RNA sample preparation for denaturing formaldehyde-agarose gel electrophoresis. This buffer is formulated for use in Northern blots. The presence of ethidium bromide in agarose gels or the loading buffer has been shown to cause poor transfer efficiency and can effect the length of transfer time.^{1,2}

This product is suitable for use in formaldehyde-agarose gel electrophoresis of RNA. It has been tested for RNase activity and none was detected.

Reagent

Composition of RNA Sample Loading Buffer:

62.5% (v/v) deionized formamide

1.14 M formaldehyde

1.25x MOPS-EDTA-sodium acetate buffer

(Product Code M 5755, diluted 8-fold)

200 µg/ml bromophenol blue

200 µg/ml xylene cyanol FF

Procedure

Add loading buffer to sample in ratio of 2:1 to 5:1. Just before loading, heat to 65 °C for 10 minutes, then chill on ice.

Precautions and Disclaimer

This item is for R&D use only, not for drug, household, or other uses. Consult the MSDS for information regarding hazards and safe handling practices.

References

1. Sambrook, J, and Russell, D.W., Molecular Cloning: A Laboratory Manual, Third Edition, Cold Spring Harbor Laboratory Press, New York, p. 7.27-7.28, 7.31-7.32 (2000). (Product Code M 8265)
2. Farrell, R.E., RNA Methodologies: A Laboratory Guide for Isolation and Characterization, Academic Press, p. 163 (1993). (Product Code Z35,035-4)

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