2X RNA Loading Dye

Catalog Number R0641

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WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from **thermofisher.com/support.**

Contents and storage

Contents	Amount	Storage
2X RNA Loading Dye	1 mL	room temperature or at 4 ºC for periods up to 12 months. For longer periods, store at -20 ºC

Description

The 2X RNA Loading Dye is recommended for the preparation of Thermo Scientific RiboRuler RNA Ladders and RNA samples for electrophoresis on agarose or polyacrylamide gels. It contains electrophoresis tracking dyes; bromophenol blue, xylene cyanol FF, and the intercalating dye ethidium bromide. In most denaturing agarose gel systems, bromophenol blue migrates slightly faster than human 5S rRNA, whereas xylene cyanol FF migrates slightly slower than 18S rRNA.

2X RNA Loading Dye contains the denaturing agent formamide, thus in most cases RNA molecules are separated according to their size even during non-denaturing electrophoresis. In addition, formamide stabilizes RNA.

Composition

95 % formamide
0.025 % SDS
0.025 % bromophenol blue
0.025 % xylene cyanol FF
0.025 % ethidium bromide
0.5 mM EDTA.

Recommendations for Loading

1. Add an equal volume of 2X RNA Loading Dye to RNA sample and mix well.
2. Heat the mixture at 70 °C for 10 min.
3. Chill on ice and spin down prior to loading on a gel.

Limited product warranty

Life Technologies Corporation and/or it affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at **www.thermofisher.com/us/en/home/global/terms-and-conditions.html.** If you have any questions, please contact Life Technologies at **www.thermofisher.com/support**.

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For descriptions of symbols on product labels or product documents, go to **thermofisher.com/symbols-definition**.

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