



Gel Loading Dye (6X)

Cat.No. UB202001S | Size: 1ml
Cat.No. UB202001L | Size: 1ml x 5

Description

The Gel Loading Dye (6X) is used to prepare DNA markers and samples for loading on agarose or polyacrylamide gels. It contains two tracking dyes (bromophenol blue and xylene cyanol FF) for visually tracking the DNA migration during the electrophoresis process. The Gel Loading Dye (6X) provides three functions in electrophoresis. The dyes themselves migrate independently from the samples, allowing the user to estimate the migration of nucleic acids. The loading dye imparts color to the samples, which visually facilitates the loading process. Last, the loading dye increases the density of the sample, which ensures even loading in the sample well. The ready-to-use format means no more exposure to potentially irritating and harmful powdered dyes.

Features

- Two- color tracking of DNA migration during electrophoresis
- The dye do not interfere with UV visualization of DNA fragments
- EDTA inhibits metal dependent nucleases.

Applications

- Preparation of DNA ladders and samples for loading on agarose gels

Quality Control

The quality of the Gel Loading Dye (6X) is tested on a lot-to-lot basis to ensure consistent product quality.

Note: In 1% agarose gels, xylene cyanol FF co-migrates with ~4000 bp DNA and bromophenol blue co-migrates with ~300 bp DNA.

Required Materials

- Electrophoresis equipments.
- DNA Markers (optional).

Tracking Dyes

Bromophenol blue and xylene cyanol FF.

Storage

- Store at 4°C up to 12 months.
- For longer periods, store at -20°C.

Gel Loading Dye (6X) Protocol

1. Vortex Gel Loading Dye (6X) for 10 seconds prior to use.
2. Dilute 1 volume of the Gel Loading Dye (6X) with 5 volumes of the DNA sample and mix.
3. Load the sample into the DNA gel and run according to the standard procedures.
4. On the electrophoresis, it is easy to visually track the DNA migration during DNA electrophoresis.

Troubleshooting

Refer to the table below to troubleshoot problems that you may encounter when DNA electrophoresis with Gel Loading Dye (6X).

Problem	Cause	Solution
No color or weak band on electrophoresis	Dilution ratio may not be right.	Check the dilute ratio in the 6-fold dilution

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