

## 6X Loading Dye (3 colors)

Cat. No. LD-02

Volume: 1 ml/ vial

### Description

The 6X Loading Dye (3 colors) is used to prepare DNA markers and samples for loading on agarose or polyacrylamide gels. It contains three tracking dyes (bromophenol blue, xylene cyanol FF, and orange G) for visually tracking the DNA migration during the electrophoresis process.

The 6X Loading Dye 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.

### Quality Control

The GeneDireX 6X Loadign Dye has been tested for the contaminating DNase, RNase and protease activities and is sterile-filtered for long shelf life and stability.

### Note

In 1% agarose gels, xylene cyanol FF co-migrates with ~4000 bp DNA, while bromophenol blue co-migrates with ~300 bp DNA, and orange G co-migrates with smallest fragments, ~50 bp.

### Applications

1. Vortex 6X Loading Dye for 10 seconds prior to use.
2. Dilute 1 volume of the dye 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.

### Tracking Dyes

Bromophenol blue, xylene cyanol FF, and orange G.

### Storage

Store at 4°C up to 12 months.

For longer periods, store at -20°C.