

# 6X TriTrack DNA Loading Dye

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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](https://www.thermofisher.com/support).

## Contents and storage

Contents	Amount	Storage
6X TriTrack DNA Loading Dye	5 x 1 mL	room temperature or at 4 °C for periods up to 12 months. For longer periods, store at -20 °C

### Description

The 6X Thermo Scientific TriTrack DNA Loading Dye is used to prepare DNA markers and samples for loading on agarose or polyacrylamide gels. The optimized solution contains three dyes: bromophenol blue, xylene cyanol FF and orange G for visual three-color tracking of DNA migration during electrophoresis. The presence of glycerol in the solution ensures that the DNA in the ladder and sample forms a layer at the bottom of the well; the EDTA included in the solution binds divalent metal ions and inhibits metal dependent nucleases.

### Composition

10 mM Tris-HCl (pH 7.6)  
0.03 % bromophenol blue  
0.03 % xylene cyanol FF  
0.15 % orange G  
60 % glycerol  
60 mM EDTA.

### Usage Recommendations

- 1 Add 1 volume of 6X TriTrack™ DNA Loading Dye to 5 volumes of DNA sample.
- 2 Mix well, spin down and load.

### Note

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

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