

## Gel Loading Dye, Orange (6X)



B7022S 003140517051



1-800-632-7799  
info@neb.com  
www.neb.com

# B7022S

4 ml **Lot: 0031405**  
Store at 25°C **Exp: 5/17**

**Description:** Gel Loading Dye, Orange (6X) is a pre-mixed loading buffer with a tracking dye for agarose and non-denaturing polyacrylamide gel electrophoresis. This solution contains SDS, which often results in sharper bands, as some restriction enzymes are known to remain bound to their DNA substrates following cleavage. EDTA is also included to chelate magnesium (up to 10 mM) in enzymatic reactions, thereby stopping the reaction. Orange G will not appear in gel photographs, and runs ahead of all but the

smallest restriction fragments. Orange G migrates at approximately 50 bp on a standard 1% TBE agarose gel.

**1X Gel Loading Dye, Orange:** 2.5% Ficoll®-400, 11 mM EDTA, 3.3 mM Tris-HCl (pH 8.0 @ 25°C), 0.017% SDS and 0.15% Orange G.

**Storage Conditions:** Store at room temperature.

**Quality Assurance:** Gel Loading Dye, Orange (6X) is assayed for Non-Specific DNase Activity (16 hour), Exonuclease Activity (Radioactivity Release), Endonuclease Activity (Nicking) and RNase Activity (Extended Digestion).

**Note:** Use 5 µl of Gel Loading Dye, Orange (6X) per 25 µl reaction, or 10 µl per 50 µl reaction. Mix well before loading gel.



NEW ENGLAND BIOLABS® is a registered trademark of New England Biolabs, Inc.

FICOLL® is a registered trademark of GE Healthcare.

CERTIFICATE OF ANALYSIS

## Gel Loading Dye, Orange (6X)



B7022S 003140517051



1-800-632-7799  
info@neb.com  
www.neb.com

# B7022S

4 ml **Lot: 0031405**  
Store at 25°C **Exp: 5/17**

**Description:** Gel Loading Dye, Orange (6X) is a pre-mixed loading buffer with a tracking dye for agarose and non-denaturing polyacrylamide gel electrophoresis. This solution contains SDS, which often results in sharper bands, as some restriction enzymes are known to remain bound to their DNA substrates following cleavage. EDTA is also included to chelate magnesium (up to 10 mM) in enzymatic reactions, thereby stopping the reaction. Orange G will not appear in gel photographs, and runs ahead of all but the

smallest restriction fragments. Orange G migrates at approximately 50 bp on a standard 1% TBE agarose gel.

**1X Gel Loading Dye, Orange:** 2.5% Ficoll®-400, 11 mM EDTA, 3.3 mM Tris-HCl (pH 8.0 @ 25°C), 0.017% SDS and 0.15% Orange G.

**Storage Conditions:** Store at room temperature.

**Quality Assurance:** Gel Loading Dye, Orange (6X) is assayed for Non-Specific DNase Activity (16 hour), Exonuclease Activity (Radioactivity Release), Endonuclease Activity (Nicking) and RNase Activity (Extended Digestion).

**Note:** Use 5 µl of Gel Loading Dye, Orange (6X) per 25 µl reaction, or 10 µl per 50 µl reaction. Mix well before loading gel.



NEW ENGLAND BIOLABS® is a registered trademark of New England Biolabs, Inc.

FICOLL® is a registered trademark of GE Healthcare.

CERTIFICATE OF ANALYSIS