

# Product Information

## 6X DNA Loading Buffers

### Product List

Catalog no.	Product	Size	Tracking dyes*
99859-1	6X DNA Loading Buffer (Orange)	4 x 1.5 mL	Orange (50 bp)
99962-1	6X DNA Loading Buffer (Blue)	4 x 1.5 mL	Light blue (1500 bp) Dark blue (200 bp)

\*Approximate migration of tracking dye in 1% agarose gel.

### Storage and Handling

Product is stable for at least 6 months from date of receipt when stored at 4°C, or at least 24 months from date of receipt when stored at -20°C.

### Product Description

6X Loading Buffers contains density agents for loading DNA samples on agarose or polyacrylamide gels, with tracking dyes to visually monitor electrophoresis. 6X DNA Loading Buffer (Blue) contains two blue tracking dyes. The light blue dye runs at approximately 1.5 kb, and the dark blue dye runs at approximately 200 bp in a 1% agarose gel.

6X DNA Loading Buffer (Orange) contains a single orange tracking dye that runs at approximately 50 bp in a 1% agarose gel. Unlike blue tracking dyes, the orange dye does not overshadow fluorescently stained DNA, making it useful for visualizing low molecular weight bands. It is also recommended for use with Biotium's DNAzure® Blue Visible Blue Nucleic Acid Gel Stain (see Related Products).

These loading buffers do not contain fluorescent dye for detecting DNA bands. For convenient one-step loading and DNA staining, we offer 6X GelRed® Prestain Loading Buffers (see Related Products). PCR products from EvaGreen® or EvaGreen® Plus qPCR reactions can be visualized on gels using a SYBR® Green filter without additional fluorescent dye. We also offer easy-to-use GelRed® or GelGreen® coated agarose.

### Protocol

Add 1 volume of 6X loading buffer for every 5 volumes of DNA sample for a final concentration of 1X loading buffer. Mix thoroughly and load on gel.

### Related Products

Catalog number	Product Description
31022	Ready-to-Use 1 kb DNA Ladder
31032	Ready-to-Use 100 bp DNA ladder
41001	GelRed® Nucleic Acid Gel Stain, 3X in water (4L)
41003	GelRed® Nucleic Acid Gel Stain, 10,000X in water
41005	GelGreen® Nucleic Acid Gel Stain, 10,000X in water
41011	GelRed® Prestain Plus 6X DNA Loading Dye
41009	6X GelRed® Prestain Buffer with Blue Tracking Dyes
41010	6X GelRed® Prestain Buffer with Orange Tracking Dye
40094	Oxazole Gold (SYBR® Gold), 10,000X in DMSO
41028	Agarose LE, Ultra-Pure Molecular Biology Grade
41029	GelRed® Agarose LE
41030	GelGreen® Agarose LE
41008	PAGE GelRed® Nucleic Acid Gel Stain, 10,000X in water
41014	PAGE GelRed® Nucleic Acid Gel Stain, 1X in water (4L)
41020	DNAzure® Visible Blue Nucleic Acid Gel Stain
41006	TBE, 5X (4L)
E90003	Gel-Bright™ LED Gel Illuminator
41024	Water, Ultrapure Molecular Grade (4L)
22007	Activated Charcoal Decontamination Bags
31000	EvaGreen® Dye, 20X in water
31041	Forget-Me-Not™ EvaGreen® qPCR Master Mix
31043	Forget-Me-Not™ Universal Probe qPCR Master Mix
31073	AccuBlue® Broad Range RNA Quantitation Kit
31006	AccuBlue® High Sensitivity dsDNA Quantitation Kit
31007	AccuBlue® Broad Range dsDNA Quantitation Kit
31028	AccuClear® Ultra High Sensitivity dsDNA Quantitation Kit
31060	AccuBlue® NextGen dsDNA Quantitation Kit
31066	AccuGreen™ High Sensitivity dsDNA Quantitation Kit for Qubit®
31069	AccuGreen™ Broad Range dsDNA Quantitation Kit for Qubit®

Please visit our website at [www.biotium.com](http://www.biotium.com) for information on our life science research products, including environmentally friendly EvaGreen® qPCR master mixes, DNA quantitation kits, fluorescent CF® Dye antibody conjugates and reactive dyes, apoptosis reagents, fluorescent probes, and kits for cell biology research.

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