

**Catalog No.:** 6XLD

**Product Name:** **SafeStain 6X DNA Loading Dye**

**Contents:**

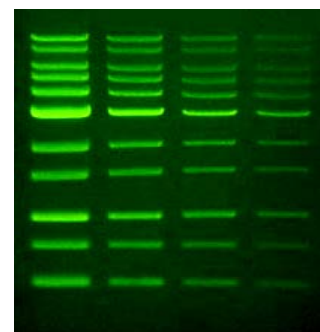
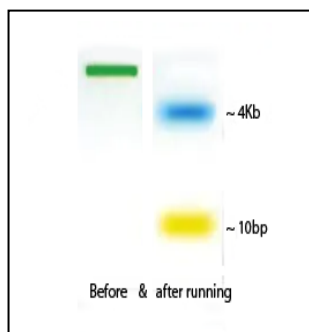
Component	Size	Application
SafeStain 6X DNA Loading Dye	1000µl	DNA-staining loading buffer.

**Description:** The **SafeStain 6X DNA Loading Dye** for running DNA samples on an agarose gel. It contains two regular tracking dyes and a safe, non-carcinogen green fluorescent dye. The two regular dyes are for monitoring the agarose gel while it is running, and the green fluorescent dye is to replace the toxic carcinogen ethidium bromide (EtBr). By using this special DNA loading dye, your agarose gel will reveal two different colors, blue and yellow, while running. The gel can be directly visualized under LED light or UV light without any extra staining steps. DNA stained with the fluorescent dye will emit a green light (530nm).

**Storage:** Store at 4°C, or -20°C for long term; avoid light.

**Composition of DNA SafeStain Loading Dye:**

Tris-HCl	10mM
EDTA	1mM
Glycerol	5%
Xylene cyanol	0.06%
Yellow dye	0.6%
Green fluorescent dye	optimal
pH 7.5 @ 25°C	



Under normal light

Under UV or Blue Light

**Usage:**

Mix your samples with the **SafeStain 6X DNA Loading Dye** in a 1:5 ratio. For example, add 1µl of the **SafeStain 6X DNA Loading Dye** to 5µl of DNA sample, or 2µl of the **SafeStain 6X DNA Loading Dye** to 10µl of DNA sample. Mix a DNA ladder in the same way as mixing the samples (or use the Prestained DNA Ladders). Load the DNA ladder into a designated well, and the samples into other wells of the same agarose gel. Run the agarose gel and visualize under LED or UV light when ready. Take picture as needed. Note: It is better to use an amber filter (sometimes called a SYBR green filter) when taking pictures.

**Related products**

**Catalog No.**

• Agarose (Standard-Agarose)	A113
• PreSafeStained 100bp DNA Ladder	M3002
• PreSafeStained 1Kb DNA Ladder	M1008
• Ultra Bright LED Transilluminator	LB-16
• UltraSlim® LED Illuminator	SLB-01

*This product is for research use only.*