

Catalog No.: C113-2

Product Name: **DNA Loading Buffer: 6X**

Size: 5ml

Description: The addition of DNA Loading Buffer to a DNA sample adds color and increases the density to simplify the loading process. It contains two dyes, bromphenol blue and xylene cyanol FF, at low concentrations to avoid masking DNA fragments in the samples. In an electric field, the dyes move toward the anode at predictable rates. After electrophoresis, the buffer yields two clearly separated bands of color: in agarose gels from 0.5% to 1.4% in concentration, bromphenol blue migrates with 300bp linear double-stranded DNA fragment, whereas xylene cyanol FF co-migrates with linear double-stranded DNA approximately 4kb length.

Composition:	Tris-HCl (pH 8.0)	60mM
	EDTA (pH 8.0)	60mM
	Bromphenol blue sodium salt:	0.12 %
	Xylene cyanol FF:	0.12 %
	Glycerol	30%

Recommended Usage:

- *For DNA markers or ladders:* mix one part of the 6x gel loading buffer with five parts of the original DNA ladder, and load into the well of your gel.
- *For DNA samples:* if needed, dilute your DNA samples with TE buffer or water to a desired concentration, then mix one part of the 6x gel loading buffer with five parts of your diluted DNA samples, and load into the well of your gel.

Storage: Store at room temperature, 4°C, or -20°C.

Note: This Product Is for Research Use Only.

Related Products	Catalog No.
• 100bp DNA Ladder	M107
• 1Kb DNA Ladder II	M108
• 100bp Plus DNA Ladder	M111
• Pre-SafeStained 100bP DNA Ladder	M3002
• Pre-SafeStained 1Kb DNA Ladder	M1008