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6x SuperStain Loading Buffer

Catalog Number: CW2636S (500 ul)
CW2636M (2.5 ml)

Storage Condition: store at 2-8°C in dark.

Kit Components:

Component	CW2636S (500 ul)	CW2636M (2.5 ml)
6x SuperStain Loading Buffer	500 ul	5x500 ul

Product Introduction:

SuperStain dye is added to the conventional 6×Loading Buffer in this product. This dye is a biological macromolecule that cannot penetrate the cell membrane to enter the cell. Compared to the strong mutagenicity of EB, it is a safe and non-toxic nucleic acid dye.

When using 6×SuperStain Loading Buffer instead of the conventional Loading Buffer, it is not necessary to add EB or other nucleic acid dyes during the gel making process. The DNA samples are mixed with 6×SuperStain Loading Buffer, then perform gel electrophoresis.

Because the SuperStain dye and EB have the same spectral characteristics, it is not necessary to change the filter and the observation device. It can be detected by normal UV light excitation, and it is very convenient and flexible to use.

Not included in the product:

Agarose;

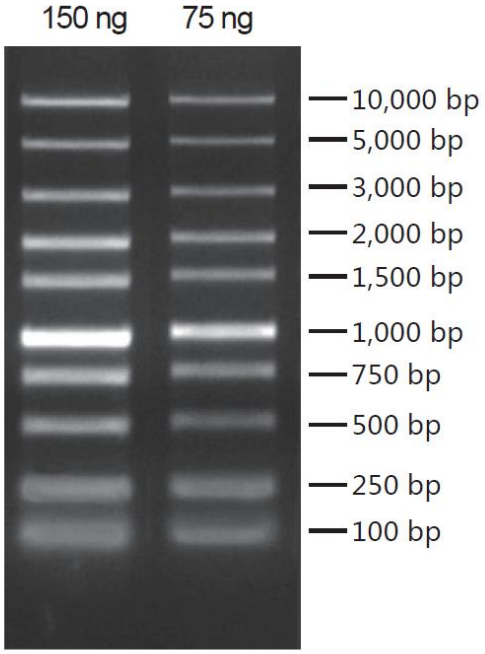
TAE/TBE gel electrophoresis buffer (CW0663S/CW0664S).

Preparation before the experiment and important notes:

1. Since the dye is mixed with the DNA before electrophoresis, it is not necessary to add it to the gel, therefore the prepared gel can be stored for a longer time.
2. Since the amount of dye in the Loading Buffer is much higher than the amount of dye added to the gel, the sensitivity to DNA is higher.

Protocol:

1. Make an appropriate concentration of agarose gel.
2. Mix 5 ul of DNA sample with 1 ul 6x SuperStain Loading Buffer, and load directly into the gel wells, then perform gel electrophoresis and image acquisition.



Add 1 ul of this product to the Super DNA Marker (Cat. Num. CW2583), then run on an agarose gel made by TAE buffer without adding any dyes. The amount of DNA are 150 ng and 75 ng respectively.