

6×DNA Loading Buffer

Cat. no.4992429/4992428

Storage: 4°C (-20°C for long term storage)

Product Size:

Cat. No.	6×DNA Loading Buffer	Size
4992429	Bromophenol Blue	5x1 ml
4992428	Bromophenol Blue and Xylene Cyanol	5x1 ml

Description

6×DNA Loading Buffer is the DNA loading buffer suitable for both native and denatured gel.

The product is easy to use. When using, add 1 μl 6×DNA Loading Buffer to every 5 μl DNA sample, mix the DNA sample and DNA loading buffer, and directly load to the gel.

The components are showed in the table:

Cat. No.	Components
4992429	0.25% bromophenol blue, 40% glycerin, ddH ₂ O
4992428	0.05% bromophenol blue, 0.05% Xylene cyanol FF, 30 mM EDTA, 36% glycerin, ddH ₂ O

Notes

- When 0.5×TBE is used, the rate of bromophenol blue is 2.2 times that of xylene cyanol FF in any concentration of agarose. In agarose gel electrophoresis of 0.5~1.4%, the migration rate of bromophenol blue is the same as that of double chain linear DNA with a length of 300 bp; Xylene cyanol FF is the same as that of 4 kb double chain linear DNA.
- The migration rates of bromophenol blue and xylene cyanol FF in different concentrations of polyacrylamide gel are shown in the table.

Conc. of non denatured polyacrylamide gel	Bromophenol blue**	Xylene cyanol FF**
3.5%	100 bp	460 bp
5.0%	65 bp	260 bp
8.0%	45 bp	160 bp
12.0%	20 bp	70 bp
20.0%	12 bp	45 bp

Note: ** bp number refers to the length of DNA fragment that moves the same distance as the pigment.

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The product is used for research only, neither intended for the diagnosis, or treatment of a disease, nor for the food, or cosmetics etc.