

Ver.23071

## 6X DNA loading buffer (with bromophenol blue/ Xylene cyanol)

Cat.No.: ORT301

**Description:** This product is used for easy loading and tracking of DNA samples in agarose or polyacrylamide gels. This product is convenient to use. Mix 6X DNA loading buffer with DNA sample at a volume ratio of 1:5 and then load to DNA samples.

### Product contents:

- 1) 6X DNA loading buffer with bromophenol blue/Xylene cyanol (5×1mL)

### Storage

- Short-term storage (less than 6 months: 2°C to 8°C)
- Long-term storage (more than 6 months: -20°C)

### Notes

- When 0.5X TBE is used, bromophenol blue moves 1.2 fold faster than xylene cyanol FF. In a 0.5-1.4% agarose gel, bromophenol blue migrates at approximately 300bp DNA fragments; while xylene cyanol FF approximately 4kb DNA fragments.
- Mobility of bromophenol blue and xylene cyanol FF in different concentrations of polyacrylamide gels:

Concentrations of non-denaturing polyacrylamide gels	Bromophenol blue	Xylene cyanol FF
3.5%	100bp	460bp
5.0%	65bp	260bp
8.0%	45bp	160bp
12.0%	20bp	70bp
20.0%	12bp	45bp

**bp indicates DNA fragment length which moves the same distance with pigment**