

6X DNA loading buffer

(with bromophenol blue)

Cat.No.: ORT201-01

Description: This product is used for easy loading and tracking of DNA samples in agarose or polyacrylamide gels. The presence of glycerol ensures that the DNA in the sample forms a layer at the bottom of the well. 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 (5×1mL)

Storage

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

Notes

- In a 0.5-1.4% agarose gel, bromophenol blue migrates at approximately 300bp DNA fragments.
- Mobility of bromophenol blue in different concentrations of polyacrylamide gels:

| Concentrations of non-denaturing polyacrylamide gels | Bromophenol blue |
|--|------------------|
| 3.5% | 100bp |
| 5.0% | 65bp |
| 8.0% | 45bp |
| 12.0% | 20bp |
| 20.0% | 12bp |

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