

Product Information

GEL LOADING SOLUTION, TYPE I 6× Concentrate

Product No. **G 7654**

Product Description

Gel Loading Solution, Type I, 6× concentrate offers the advantage of two tracking dyes. For polyacrylamide gels, xylene cyanole comigrates with approximately 45-460 bp DNA (depending on gel concentration), and bromophenol blue, which always runs faster than xylene cyanole, comigrates with 15-100 bp DNA (depending on gel concentration) (See Table 1). In agarose gels over a range of 0.5-1.4% (w/v), xylene cyanole comigrates with 4 kb linear double strand DNA and bromophenol blue comigrates with 300 bp double strand DNA. Gel Loading Solution also contains 40% sucrose which serves to add density to facilitate sample loading.

Procedure

Add 1 volume of the Gel Loading Solution to 4-5 volumes of sample and mix well.

Storage/Stability

Store at 2-8 °C

Product Profile

Composition:
 0.25%(w/v) Bromophenol blue
 0.25%(w/v) Xylene cyanole FF
 40%(w/v) sucrose in water

Suitable for use in nucleic acid gel electrophoresis
 DNase, RNase: None detected

Reference

1. Sambrook, J., *et al.*, Molecular Cloning, A Laboratory Manual, Cold Spring Harbor Laboratory, p. 6.13-6.62 (1989)

TABLE 1
 DNA Fragment Length (Nucleotides) which Comigrates with Tracking Dye⁽¹⁾

Acrylamide concentration	Number of base pairs	
	Bromophenol Blue	Xylene Cyanole
3.5%	100	460
5%	65	260
12%	45	70
15%	20	60
20%	15	45