

6× DNA Loading Buffer with SDS

1 Contents

Components	HY-K1032-5 mL	HY-K1032-50 mL
6× DNA Loading Buffer with SDS	5 × 1 mL	10 × 5 × 1 mL

2 Introduction

MCE 6× DNA Loading Buffer with SDS is a modified 6-fold buffer. It mainly consists of glycerin, EDTA, SDS, Orange G and Xylene Cyanol FF. Glycerin can increase the density of the sample and make it settle to the bottom of the sample hole. SDS mainly promotes the denaturation of remaining polymerase. Orange G and Xylene Cyanol FF act as indicators. This product needs to be diluted to 1× for use.

Dye migration distance corresponding to different gel concentrations:

Agarose gel concentration	Orange G	Xylene Cyanol FF
0.8%	~80 bp	4,000 bp
1.0%	~40 bp	2,000 bp
1.5%	~20 bp	1,500 bp
2.0%	< 10 bp	1,200 bp
2.5%	< 10 bp	1,200 bp
3.0%	< 10 bp	1,200 bp

3 General Protocol

Add 1 µL of 6× DNA loading buffer with SDS to each 5 µL of DNA sample, mix well and add to the loading hole for electrophoresis.

4 Storage

Store at room temperature for 2 years

5 Precautions

1. For better results, please change the buffer in time and use the newly prepared agarose gel.
2. This product is for R&D use only, not for drug, household, or other uses.
3. For your safety and health, please wear a lab coat and disposable gloves to operate.