

6×DNA Loading Buffer with SDS

REF: EG21915S

Storage Condition

Store at room temperature

Components

Component	Amount
6×DNA Loading Buffer with SDS	5×1 ml

Description

The main components of 6×DNA Loading Buffer with SDS are glycerol, EDTA, SDS, Orange G, and Xylene Cyanol FF. The presence of glycerol ensures that the DNA in the ladder and sample forms a layer at the bottom of the well. The EDTA included in the solution binds divalent metal ions and inhibits metal-dependent nucleases. SDS helps dissociate DNA-protein complexes which can interfere with electrophoresis. The tracking dyes Orange G and Xylene Cyanol FF indicate the progress of electrophoresis, allowing us to terminate the process at the appropriate time.

The migration distance of dyes corresponding to the gel concentration:

Agarose gel concentration	Orange G	Xylene Cyanol FF
0.8%	~80 bp	4000 bp
1.0%	~40 bp	2000 bp
1.5%	~20 bp	1500 bp
2.0%	<10 bp	1200 bp
2.5%	<10 bp	1200 bp
3.0%	<10 bp	1200 bp

Protocol

1. Please use a 6-fold dilution by adding 1 μ l of 6× DNA Loading Buffer with SDS to every 5 μ l of DNA sample.
2. After mixing, directly load the mixture into the wells of the DNA gel for electrophoresis.

Notice

1. For your safety and health, please wear a lab coat and disposable gloves while conducting the experiment.