

SynLD DNA loading dye

For visual tracking of DNA migration during electrophoresis



CAUTION! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from synthbioenzymes.com.

The protocol and storage conditions detailed below ensure that the SynLD Loading Dye can function at its highest potential.

1. Product description

SynLD is a 6X DNA loading dye which contains three different dyes for visual tracking of DNA migration during electrophoresis. It can be used to prepare DNA samples for loading on agarose gels. The dyes have a slight negative charge and migrate in the same direction as DNA, allowing the user to monitor the progress of molecules moving through the gel. It enables the tracking of the migration of samples without the use of UV light. The product also allows the sample to form a layer at the bottom of the well without glycerol. The rate of migration varies with gel composition. It can be diluted to 1:5 with sample before loading and the rate of migration will vary with the composition of gel.

Gel	Dye 1	Dye 2	Dye 2
0.5%	5000 bp	3000 bp	300 bp
1.0%	5000 bp	1500 bp	75 bp
1.5%	500 bp	75 bp	-
2.0%	500 bp	75 bp	-

Table 1: The rate of migration varies with the composition of gel.

2. Contents

SynLD package information

L001M	5 x 1.0 ml 6x SynLD
L001L	20 x 1.0 ml 6x SynLD

3. Storage conditions for SynLD

It can be stored at room temperature or at 4 °C for periods up to 12 months. For a longer period of time store at -20°C to ensure its quality.

4. Protocol for Preparation of DNA Samples for Conventional DNA Electrophoresis

Add 1 volume of 6x DNA loading dye to 5 volumes of sample. Mix well before loading, then spin down and load it on the agarose gel.



NOTE! Avoid high salt concentrations in the DNA samples as this may cause bands to shift during electrophoresis.

5. Troubleshooting

Visit our online FAQ for tips and tricks and troubleshooting information:

<https://synthbioenzymes.com/product/synld/>