

DNA Loading Buffer

Batch No.: See vial **Product** **Catalog number**
5x Loading Buffer Blue BIO-37045: 2 x 1 mL



Storage and Stability:

The DNA Loading Buffer is shipped at ambient temperature and stored at -20°C. Thaw, mix, and briefly centrifuge each component before use.

Expiry:

When stored under the recommended conditions and handled correctly, full activity of the kit is retained until the expiry date on the outer box label.

Safety precautions:

This product is for R&D use only, not for human use. Please refer to the material safety data sheet for information regarding hazards and safe handling practice.

Quality control specifications:

DNA Loading Buffer is extensively tested for batch-to-batch reproducibility prior to release.

Notes:

For research or further manufacturing use only.

Trademarks:

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Features:

- Colored loading for easy recognition
- No need to add dye
- Guarantee reproducible results

Applications:

- To monitor migration rate during agarose electrophoresis
- Loading of samples onto DNA agarose gels

Description

The Colored DNA Loading Buffer is a ready-to-use solution, premixed with bromophenol blue (Blue). The dye in the Colored DNA Loading Buffer migrate at different rates depending on the concentration of the agarose gel (see Dye Migration Table below). This allow users to monitor DNA migration and therefore increase the versatility of their DNA analysis, by choosing the buffer most suited to their application.

Recommended protocol

1. Add 1 volume of loading buffer to 4 volumes of sample
2. Mix well by pipeting
3. Load carefully on agarose gel and run as normal

Dye mobility table:

The following table gives the approximate migration rate of the blue dye in different agarose concentrations in TAE buffer. The values indicate the size of DNA fragments with which the dye will co-migrate at that particular gel concentration.

Agarose gel Concentration	Bromophenol Blue
0.7 %	600
1.0 %	400
1.5 %	250
2.0 %	120
3.0 %	50

Associated products:

Product Name	Pack Size	Catalog No.
Agarose, Molecular Grade	500g	BIO-41025
Agarose Tablets	500g	BIO-41027
MyTaq™ DNA Polymerase	500 Units	BIO-21105
HyperLadder™ 1kb	200 Lanes	BIO-33025

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