6x Fluo- DNA Loading Buffer (Catalog #: LB-201X)

Sizes: 1.0ml (6x)
Storage: Stored at -20°C.
6x Fluo-DNA Loading Buffer (LB-201X) contains 6x fluorescent DNA dye and **two** inert green tracking dyes : blue and yellow, at approximately 4kb and 20bp that help visualize the electrophoresis progress.

Features and Benefits:

1. Safe: Non-toxic and non-genotoxicity for waste disposal, directly into the wastewater systems or clean up with water and 70% ethanol. No need to expose your skin and eyes on UV light.

2. Sensitive: Detect down to 20-50 ng of DNA per band with blue light and 1-5 ng of DNA per band with UV light.

3. Convenient: Visualize DNA bands with a blue light transilluminator or U.V transilluminator during/after electrophoresis in TAE/TBE buffer.

4. Effective: Eliminating ultraviolet and EtBr induced mutation or cleavage of DNA fragments.

5. Compatible: Fluorescent DNA dye can be completely removed from nucleic acids by alcohol precipitation or Qiagen QIAquick Gel Extraction, suitable for downstream cloning/sub-cloning applications.

DNA Staining Protocol:

1. Prepare 0.5% to 2% of agarose gel solution in 1xTAE, TBE or FB-500 Buffer without Ethidium Bromide or other DNA dyes in a glass flask.
2. Heat in the microware until the solution is completely clear and no small floating particles are visible (about 2-3 minutes). Pour the gel solution into a gel tray after cool down. After the agarose gel has solidified you can perform electrophoresis.
3. Add 2 µl of the 6X fluo- DNA loading buffer (LB-201X) to 10 µl DNA sample or DNA marker/ladder. Mix thoroughly.
4. Load samples and run the gel using your standard protocol.
5. View DNA bands using a blue light transilluminator during or after electrophoresis.
6. Images can be taken using a blue light transilluminator or a UV transilluminator.

Technical Tips:

1. Loading 50ng-200ng DNA each lane is ideal for viewing DNA bands in agarose gels. Too much would affect the DNA migration.
2. Mix well the DNA samples or ladders with 6x fluo-DNA loading buffer by pipetting up and down for several times.