

LoadingSTAR

Cat. No. A750

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Lot No. : 501311212

Size : 1ml

Storage conditions/ Stability :

stable for 6 months at 2-8°C
light sensitive and should be the supplied
amber tubes

Product Description:

Loading STAR is designed for eliminating any staining procedure. Loading STAR contains a sensitive, stable, and relatively safe fluorescent dye designed to replace the highly toxic Ethidium Bromide for staining DNA. The fluorescent dye forms a tight complex with the sample DNA and co-migrates with it during electrophoresis. DNA bands can be visualized immediately after the run by placing the gels on a standard UV transilluminator. Post-run staining and destaining is eliminated. The tracking dye(RED) indicates at 0.7~1kb region.

Protocol :

1. Prepare agarose gel using your standard protocol.
2. Dilute 1 volume Loading STAR with 5 volumes DNA sample and mix.
3. Load samples and run the gels using your standard protocol.
4. After the run, place on UV transilluminator to immediately visualize bands.

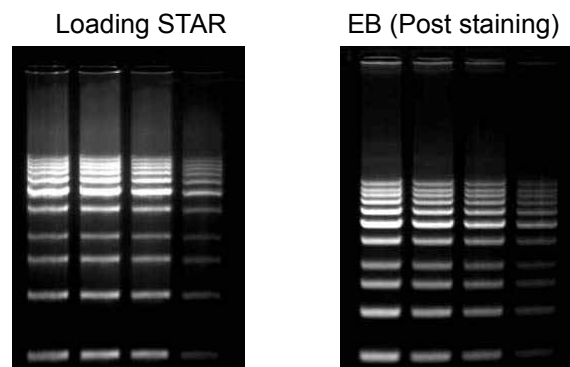
Downstream Applications:

DNA stained with the Loading STAR is compatible with a variety of downstream applications including PCR amplification, sequencing, ligation reactions and transformation procedures.

Note

- Loading STAR is nonmutagenic and noncytotoxic, but may cause skin and eye irritations. Always wear gloves when working with the product.
- Mix thoroughly before sample loading, so that the dye molecules evenly bind to DNA strand.
- Keep the ratio of Loading STAR to DNA sample (1:5). At lower ratio, the mobility of DNA fragments can be altered.
- We recommend 0.8% agarose gel rather than 1% gel when running 1kb DNA ladder

Comparison with Ethidium Bromide in Gel Staining



Comparison of Loading STAR and EtBr in gel staining using 1% agarose gel in TAE buffer. 1kb DNA Ladder were loaded onto each gel in 4 lanes in amounts of 100ng, 75ng, 50ng and 25ng from left to right.