Prime Juice Preloading Fluorescent Stain

29 **MAR 2022**

Catalog Number	Size	Volume
LD011-1000	1,000 reactions	1,000 µl
LD011-1000S	50 reactions	50 µl

Storage Conditions

Stable for up to 12 months at 4°C.

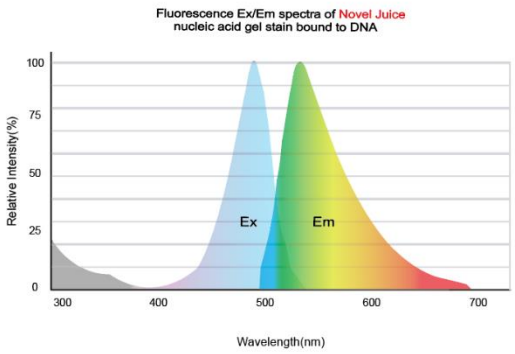
Stable for up to 24 months at -20°C.

Prime Juice is recommended to be protected from light due to its sensitivity to light

Description

Prime Juice is a non-mutagenic fluorescent reagent producing an instant visualization of DNA bands upon illuminating agarose gels on the BluPAD Dual LED Blue/White Light Transilluminator or UV Transilluminator. Prime Juice, as supplied in the 6X DNA Loading Buffer, is used to prepare DNA markers and samples for loading on agarose or polyacrylamide gels. It contains three tracking dyes (Bromophenol Blue, Xylene Cyanol FF, and Orange G) for visually tracking the DNA migration during the electrophoresis process and for detecting the double-stranded DNA (dsDNA), single-stranded DNA (ssDNA), and RNA at as low as 0.14ng DNA, thus rendering it the most sensitive stain available on the market. The recommended DNA sample mass is at least 50 ng or more, thus not causing any obvious shift in the migration pattern.

Regardless of the loaded DNA or RNA sample amount for staining, it achieves cogently consistent migration pattern without the "smiley signature" commonly identified with other competing stains on the market. It is the ideal non-hazardous alternative to Ethidium Bromide for protecting the environment and meeting with the local biosafety regulations/ESG practices/UN SDG Goals.



Kit Content(s)

Prime Juice Preloading Fluorescent Stain	1,000 µl x 1

Required materials but not provided

- Blue-Light Transilluminator
- Horizontal Electrophoresis system
- Power supplies
- Microcentrifuge

Instrument Compatibility

Both Blue-Light and UV could detect the signal; broad compatibility range.

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Reaction Setup

1. Vortex Prime Juice for 10 seconds prior to use.
2. Dilute 1 part of Prime Juice with 5 parts of DNA sample and mix.
   Note: Prime Juice must be added to DNA markers in order to visualize the ladder bands simultaneously with the sample after electrophoresis.
3. Load sample and run according to standard procedures.
4. After the electrophoresis, remove gel and place it on UV or a visible -light transilluminator to immediately visualize bands.
5. Gels can be post-stained with Ethidium Bromide if desired.

Novel Juice keeps your lab safe

- Safe – Absence of mutagenicity.
- Low Environmental Impact – Compliance with the Clean Water Act standards. No water pollution concern. Sensitivity – High degree of sensitivity as Ethidium Bromide.
- Convenience – Ready to Use; Same application procedures as the 6X Loading Dye.
- Speed – No de-staining requirement, low background value, and image displayed after coupling with the nucleic acid.
- Compatibility – Use the Blue Light or UV to detect the signal; Broad compatibility range.
- Economic – Non-hazardous product; No expenses required for waste management.

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