Novel Juice *PLUS*

Cat. No.: SL007-1000
Size: 1 ml

Description

Novel Juice *PLUS* is a fluorescent reagent that produces instant visualization of DNA bands upon blue light (e.g. BLooK, BK001) or UV illumination of agarose gels. Supplied in 6X DNA Loading Buffer, Novel Juice *PLUS* is used to prepare DNA markers or samples for loading on agarose or polyacrylamide gels. Novel Juice *PLUS* is the sensitive staining reagent available for detecting the double-stranded DNA (dsDNA). It contains three tracking dyes (bromophenol blue, xylene cyanol FF, and orange G) for visually tracking the DNA migration during the electrophoresis. It is ideal alternative to Ethidium Bromide (EtBr). Approximate fluorescence excitation / emission: 300, 495 / 537 nm, bound to nucleic acid.

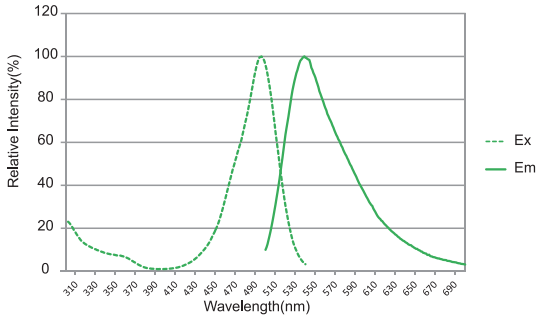
Applications

- DNA Sample Staining.

Tracking Dyes

- Bromophenol Blue, Xylene Cyanol FF, and Orange G

Fluorescence Ex/Em spectra of **Novel Juice *PLUS*** nucleic acid gel stain bound to DNA



Features

- Sensitivity – High degree of sensitivity as Ethidium Bromide.
- Convenience – Ready to Use; Same application procedures as the 6X Loading Dye.
- Time efficiency – 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
- Economic – No expenses required for the waste management.

Quality Control

The quality of the Novel Juice *PLUS* Supplied in 6X Loading Buffer is tested on a lot-to-lot basis to ensure consistent product quality.

Required Materials

- Electrophoresis equipments.
- DNA Markers (optional).
- UV or blue light transilluminator.

Storage

For long periods, store at -20°C. When store at 4°C up to 12 months.
Note: Novel Juice PLUS Dye is light sensitive and should be stored protected from light.

Recommendations for Loading

1. Vortex Novel Juice *PLUS* for 10 seconds prior to use.
2. Dilute 1 part Novel Juice *PLUS* with 5 parts DNA sample and mix.
   Note: Novel Juice *PLUS* 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 on UV or a blue -light transilluminator to immediately visualize bands.
5. Gels can be post-stained with EtBr if desired.

Troubleshooting

Problem	Cause	Solution
Band shifted	Nucleic acid binding dyes can affect DNA migration during electrophoresis	Loading more DNA sample for electrophoresis, thus not causing any obvious shift in the migration pattern.
	Wavelength may not be right.	Check the fluorescence excitation and emission wavelengths.
Low sensitivity	Dilution ratio may not be right.	Check the dilution ratio in the 1 part Novel Juice PLUS with 5 parts DNA sample dilution.

Related Ordering Information

Cat. No.	Description	Package
BK001	BLooK LED Transilluminator	1 each
BK001-000B	Mini Darkroom for BLooK	1 each
BK002	pBLooK LED transilluminator	1 each
BK003	μBLooK LED transilluminator	1 each

All products are for research use only.