

## Nucleic Acid Stains

# BioLit® SafeDye stain BSD001

Ethidium Bromide replacement

An exceptional **safe, non-carcinogenic and eco-friendly** nucleic acid stain used for the visualization of nucleic acids (double-stranded DNA, single-stranded DNA and RNA) on agarose gels which can be used as a replacement stain for Ethidium bromide (potential carcinogen/mutagen).

SafeDye is **as sensitive** as Ethidium Bromide, is used in the same way for electrophoresis and can be visualized similarly on a UV-transilluminator. It emits green fluorescence when bound to dsDNA, ssDNA and RNA and has a fluorescence excitation maxima at approx. 290-320nm, emitting at 515nm. Post-staining can also be done but is slightly less sensitive. To increase the sensitivity, the dye can also be added to the running buffer.

The dye contains no substances known to be hazardous to the environment or non-degradable in waste water treatment plants and can be disposed easily in accordance with local regulations.

### Protocol...

- Prepare 20 ml of agarose solution of desired concentration
- Cool to about 40°C
- Add 2µl of SafeDye stain to 20 ml of agarose solution
- Mix gently by swirling and cast the gel
- Allow to polymerize and load samples. Electrophorese at appropriate voltage
- Place gel on a UV-transilluminator and visualize the nucleic acid bands

\* Best results are achieved using 10µl SafeDye stain per 100ml agarose

Sensitivity profile		
	Wavelength emission (nm)	Sensitivity
BSD001	290/490	0.2 – 0.6ng
EtBr	290/605	0.2 – 0.5ng

Sr. No.	Product Code	Product Name	Pack size
1	BSD001	BioLit® SafeDye stain	250µl, 1ml

### Combo packs...

Varying range of (ready-to-load) DNA marker and ladder packs accompanied by a vial of BioLit® SafeDye Stain, for detection of the marker/ladder bands and your nucleic acid samples.

### BioLit® SafeDye Marker Packs

Sr. No.	Product Code	Product Name	Pack size
1	BLM017	SafeDye Hi-range DNA Marker	50µg
2	BLM018	SafeDye DNA Marker 1	50µg
3	BLM019	SafeDye DNA Marker 4	50µg
4	BLM020	SafeDye Mid-range DNA Marker	50µg

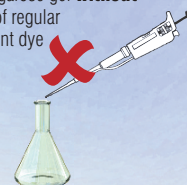
Packs of 50µg include 1×250µl of BioLit® SafeDye stain (BSD001)

### BioLit® SafeDye Ladder Packs

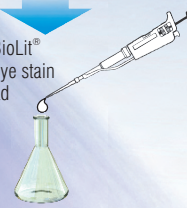
Sr. No.	Product Code	Product Name	Pack size
1	BLL020	SafeDye 50bp Ladder plus	50µg, 5×50µg
2	BLL021	SafeDye 100bp Ladder	50µg, 5×50µg
3	BLL022	SafeDye 100bp Ladder plus	50µg, 5×50µg
4	BLL023	SafeDye 500bp Ladder	50µg
5	BLL024	SafeDye 1kb Ladder plus	50µg, 5×50µg
6	BLL025	SafeDye PCR Ladder	50µg, 5×50µg

Packs of 50µg include 1×250µl of BioLit® SafeDye stain (BSD001) • Packs of 5×50µg include 1×1ml of BioLit® SafeDye stain (BSD001)

Prepare agarose gel **without** addition of regular Fluorescent dye



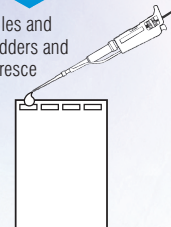
Add BioLit® SafeDye stain instead



Cast gel



Load samples and markers/ladders and electrophoresce



View your gel on a transilluminator



## Nucleic Acid Stains

# BioLit® FluroBronze stain BSD002

Ethidium Bromide replacement

### Triple advantage

- Get your ladder/marker
- Get your FluroBronze stain included in the combo pack
- Eliminate addition of potentially harmful fluorescent dyes to your agarose gel

A unique **safe, non-carcinogenic and eco-friendly** nucleic acid stain provided as a 6× loading buffer that can be added to your nucleic acid samples prior to loading onto an agarose gel. The prominent feature of this stain is that it eliminates the addition of a fluorescent dye to your agarose gel thereby safe-guarding yourself from handling a carcinogenic fluorescent reagent like Ethidium Bromide.

#### Protocol...

- Prepare a 100ml agarose solution
- Mix gently. Solution should have no air bubbles
- Let the solution cool down to 60-70°C and cast the gel
- Mix nucleic acid samples/markers/ladders with BioLit® FluroBronze stain (2µl or 1:5 dilution)
- Run gel and view the results under UV light

Sr. No.	Product Code	Product Name	Pack size
1	BSD002	BioLit® FluroBronze stain	250µl, 1ml

#### Combo packs...

Varying range of (ready-to-load) DNA marker and ladder packs accompanied by a vial of BioLit® FluroBronze Stain, for detection of the marker/ladder bands and your nucleic acid samples.

#### BioLit® FluroBronze DNA Marker Packs

Sr. No.	Product Code	Product Name	Pack size
1	BLM021	FluroBronze Hi-range DNA Marker	50µg
2	BLM022	FluroBronze DNA Marker 1	50µg
3	BLM023	FluroBronze DNA Marker 4	50µg
4	BLM024	FluroBronze Mid-range DNA Marker	50µg, 5×50µg

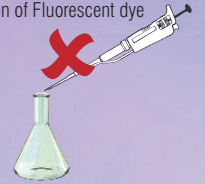
Packs of 50µg include 1×250µl of BioLit® FluroBronze stain (BSD002) • Packs of 5×50µg include 1×1ml of BioLit® FluroBronze stain (BSD002)

#### BioLit® FluroBronze DNA Ladder Packs

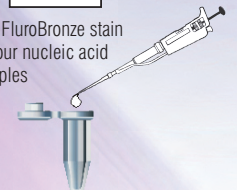
Sr. No.	Product Code	Product Name	Pack size
1	BLL026	FluroBronze 50bp Ladder plus	50µg, 5×50µg
2	BLL027	FluroBronze 100bp Ladder	50µg, 5×50µg
3	BLL028	FluroBronze 100bp Ladder plus	50µg, 5×50µg
4	BLL029	FluroBronze 500bp Ladder	50µg
5	BLL030	FluroBronze 1kb Ladder plus	50µg, 5×50µg
6	BLL031	FluroBronze PCR Ladder	50µg, 5×50µg

Packs of 50µg include 1×250µl of BioLit® FluroBronze stain (BSD002) • Packs of 5×50µg include 1×1ml of BioLit® FluroBronze stain (BSD002)

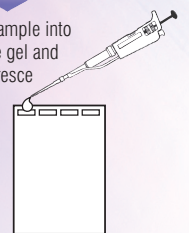
Prepare agarose gel **without** addition of Fluorescent dye



Add FluroBronze stain to your nucleic acid samples



Load this sample into the agarose gel and electrophoresce



View your gel on a transilluminator



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