

iNtRON's World Class ElectroPhoresis Total Solution

"Precision in Every Lane, Safety in Every Band."



Ultra-Safe

Non-carcinogenic & Eco-friendly EtBr alternatives.



High Clarity

Superior gel strength (>1,200 g/cm²) and sharp band resolution.



Time-Saving

Ready-to-use markers and simplified 2-in-1 staining workflows.



Versatile Range

Comprehensive sizing solutions from 100 bp to 10,000 bp.

01



Gel Preparation

Dissolving Agarose and preparing the matrix.



or



Matched Products: Agarose LE + 50X TAE / 10X TBE Buffer

02



Staining Selection

Choosing the nucleic acid staining method.

Option A

(Pre-cast/
Post-stain)



RedSafe™

Nucleic Acid
Staining Solution

- High sensitivity
- Safe & non-carcinogenic
- Compatible with UV and Visible light

Option B

(Sample-mix)



RedStar™

DNA/RNA
Loading Dye (6X)

- 2-in-1 stain & load
- Zero migration shift
- Fast & easy workflow

03



Sample Loading & Sizing

Loading DNA samples and size markers into wells.

Combined with
SiZer™ Series



SiZer™ Series

- (100, 1,000, 1,000 plus)
- Broad size range
 - Precise band patterns
 - Ready-to-use



6X Agarose
Gel Buffer Series

Combined with
RedStar™



RedStar™

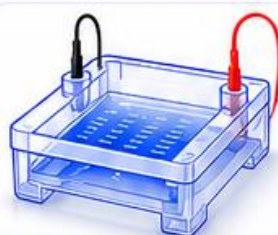
- DNA Ladder
(100bp, 1kb)
- Clear & intense bands
 - Convenient 2-in-1 workflow
 - Ideal for routine analysis

04



Running & Visualization

Electrophoresis run and imaging under UV/Visible light.



UV

UV Light

Vis

Visible Light

Product Excellence & Comparison

1 Technical Deep Dive (By Series)



Agarose & Buffers: The Foundation

- **Agarose LE:** Analytical grade for routine analysis (100 bp – 23 kb). High transparency and DNase/RNase-free.
- **Pre-made Buffers:** 50X TAE and 10X TBE (DNA Sequencing Grade) for consistent, high-resolution runs.



Staining Solutions: RedSafe™ vs. RedStar™ EtBr Alternatives

- **RedSafe™:** A highly sensitive (0.5–5 ng DNA) stain added to the gel or used for post-staining. Ideal for routine large-scale imaging.
- Non-carcinogenic & eco-friendly EtBr alternative
- Green-yellow fluorescence at 535 nm with 0.5 ng sensitivity
- **RedStar™:** A convenient 6X Loading Dye that prevents “Migration Shift.” Superior resolution for low concentrations and small fragments.
- Non-carcinogenic EtBr alternative
- Sharp, bright orange-red bands at 595 nm
- Zero Migration Shift for perfectly aligned sizing



Marker Systems: Precision Sizing

- **SiZer™ Series:** Ready-to-use markers with high-intensity reference bands.
- Available: SiZer™ 100 / 1,000 / 1,000 plus
- **6X Agarose Gel Loading Buffer Series:** Convenient sample preparation with integrated tracking dyes for easy loading and optimal band resolution.
- **RedStar™ Markers:** Specialized ladders pre-stained with RedStar dye, ensuring perfectly aligned bands with the sample.
Available: RedStar™ 100 bp DNA Ladder / 1 kb DNA Ladder



Trusted Quality, Reliable Results

- All products are manufactured under strict quality control and are DNase/RNase-free.
- Optimized for research, diagnostics, and routine molecular biology applications.



2 Ordering Information

Category	Product Name	Cat. No.	Capacity
 Matrix	Agarose LE	32034	500 g
	RedSafe™ Staining Solution	21141	1 ml
 Stain	RedStar™ Loading Dye (6X)	21142	1 ml
	SiZer™–100 DNA Marker	24073	0.5 ml
 Marker	SiZer™–1,000 DNA Marker	24074	0.5 ml
	SiZer™–1,000 plus DNA Marker	24075	0.5 ml
	RedStar™ 100 bp DNA Ladder	24079	0.5 ml
	RedStar™ 1 kb DNA Ladder	24080	0.5 ml
 Buffer	6X Agarose Gel Loading Buffer	IBS-BA006	10 ml
	6X Agarose Gel Loading Buffer Type III	IBS-BA008	10 ml
	50X TAE Buffer	IBS-BT002	1 L
	10X TBE Buffer (Seq. Grade)	IBS-BT004	1 L