

GelStar® Nucleic Acid Gel Stain

Exquisitely Sensitive In-gel Stain for DNA and RNA


GelStar® Nucleic Acid Gel Stain is a highly sensitive fluorescent stain for detecting both DNA and RNA. Add GelStar® Stain to your agarose solution prior to casting, or post-stain your gels. GelStar® Stain exhibits exceptional signal-to-noise ratio with minimal background.

■ Benefits

- **Maximum sensitivity** – Detect as little as 20 pg of dsDNA or 3 ng of RNA
- **Versatile** – Use for agarose or polyacrylamide gel electrophoresis, ideal alternative to silver staining
- **Ultimate user flexibility** – Add GelStar® Stain prior to gel casting or post-stain, no destaining required
- Complete staining solution for all types of nucleic acids
- Detect fragments with either a standard 300 nm UV transilluminator or the Clare Chemical Research, Inc., Dark Reader® Transilluminator

■ Applications

- DNA and RNA detection
- SSCP and heteroduplex analysis

 -20° C for stain
18° C to 26° C for photographic filter

 www.lonza.com/sourcebook

Stain and Method	ssDNA	dsDNA
GelStar® Stain – in gel	25 pg	20 pg
Ethidium bromide, no destain	1.25 ng	350 pg
Ethidium bromide, destain	350 pg	100 pg
SYBR® Green I or II Stain	60 pg	20–30 pg

The FlashGel™ System includes gel cassettes prestained with a similar high-sensitivity stain. Refer to page 310–316

GelStar® Gel Stain Photographic Filter

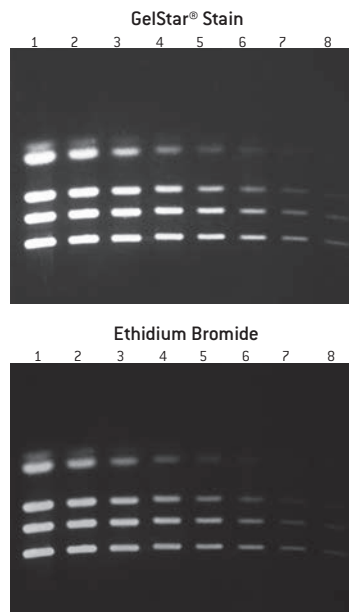
- Use for optimal sensitivity with black and white film
- Suitable for use with most Polaroid® Documentation or Camera Systems

Ordering Information – GelStar® Nucleic Acid Gel Stain 10,000X

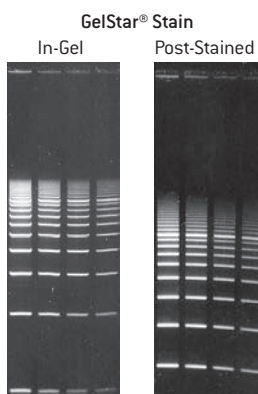
Cat. No. NA	Cat. No. EU	Product Name	Product Description	Storage Conditions	Size
50535	50535	GelStar® Nucleic Acid Gel Stain 10,000X	Supplied as a 10,000X concentrated solution in DMSO	-20°C	2 × 250 µL
50536	50536	SYBR® Green Gel Stain Photographic Filter	Wratten® #9	18°C to 26°C	3 inch square

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GelStar® Stain Versus Ethidium Bromide



Serial dilution of SimplyLoad™ DNA QuantLadder on 2% Reliant™ Precast Gels post-stained with 1X GelStar® Stain (top) or 0.5 µg/mL ethidium bromide (bottom) for 45 minutes.



Lonza's 500 bp DNA Ladder was separated on 1% SeaKem® GTG™ Agarose gels 20 cm long, 4 mm thick, run in 1X TBE buffer [Prepared from Lonza's AccuGENE™ 10X TBE Buffer] at 6 V/cm for 3 hours. GelStar® Stain was diluted 1:10,000 and added directly to the agarose or the gel was post stained for 30 minutes in a 1:10,000 dilution of GelStar® Stain in buffer. Lane 1: 10 ng DNA/band; Lane 2: 5 ng DNA/band; Lane 3: 2.5 ng DNA/band; Lane 4: 1.25 ng DNA/band.