

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 – 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 268 – 273.

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

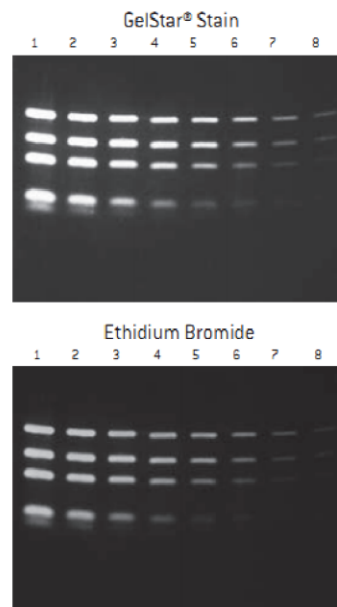
 <https://shop.lonza.com>

Cat. No.	Description	Size
50535	GelStar® Nucleic Acid Gel Stain Supplied as a 10,000X concentrated solution in DMSO	2 × 250 µl
50536	GelStar® Gel Stain Photographic Filter (Wratten® #9)	3 inch square

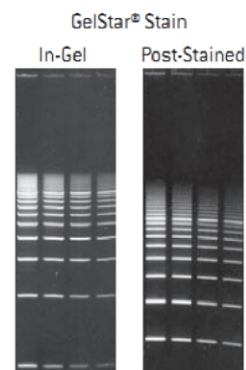
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GelStar® Stain versus Ethidium Bromide



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.