



Certificate of Analysis

PRODUCT: GelStain Blue

CAT. NO.
GS102

AMOUNT
2* 1 ml

LOT NUMBER
P20410

SHELF LIFE
Two years

STORAGE CONDITIONS
at room temperature for two years

SHIPPING CONDITIONS
at room temperature

DESCRIPTION

GelStain Blue is a sensitive, non-mutagenic and safer to the environment green fluorescent DNA gel dye designed to replace the highly toxic ethidium bromide (EtBr) for staining dsDNA, ssDNA or RNA in agarose gels or polyacrylamide gels. The sensitivity of GelStain Blue is much higher than GelStain and EB, and destaining is not required.

- Nontoxic: Unique lipophilic and macromolecular properties make it incapable of penetrating cell membranes. Ames test also shows the mutagenicity of GelStain Blue is far less than that of EB, and readily biodegradable, non-carcinogenic.
- Highly sensitive: Suitable for staining fragments of different sizes in electrophoresis gel;
- Highly stable: Suitable for using microwave or other heating methods to prepare agarose gel; extremely stable at room temperature under acidic or alkaline conditions; highly resistant to light.
- High signal-to-noise ratio: Strong fluorescence signal of the sample with low background signal.
- Simple operation: Similar to ethidium bromide, the dye does not degrade during the process of preparing gel or electrophoresis. It only takes 30 minutes for staining after electrophoresis, and the fragment can be visualized by a visible light-transilluminator directly without destaining or washing.
- A broad range of applications: Applicable for precast protocol (add dye during gel preparation) and post-stain protocol (submerge the gel in the staining solution); suitable for agarose gels and polyacrylamide gels electrophoresis; suitable for staining dsDNA, ssDNA or RNA.
- Existing imaging system: GelStain Blue has an optimal excitation in the UV region around 474 nm. It is recommended to try blue light for excitation observation. Standard UV-transilluminator used for EB staining observation can also be used.

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QUALITY CONTROL DATA

Assay	Standard	Result
Appearance	The liquid should be clear and free of precipitates or floccules, and the color should not be significantly different from that of the control batch.	Meets standards
Post-staining method	Staining can be performed correctly within a specified time period (30 minutes), which shows no significant difference compared with the control batch.	Meets standards
Precast staining method	Electrophoretic staining can be applied to different types of fragments, which shows no significant difference compared with the control batch.	Meets standards



Notice to Purchaser

All products are for research use only. Caution: Not intended for human or animal diagnostic or therapeutic uses. If you have any further questions about this Certificate of Analysis, please contact us at +86-10-57815027 or +86-400-898-0321.

TransGen Biotech products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of TransGen Biotech Co., Ltd.

TransGen Biotech Co., Ltd.
Building No.4, Zhongguancun
Dongsheng International Science
Park, No. 1 North Yongtaizhuang
Road, Haidian District, Beijing,
China

Postcode: 100192

Tel: +86-10-57815027
Fax: +86-10-57815000
Customer Service: +86-400-898-0321
Web site: www.transgenbiotech.com
E-mail: trans@transgen.com.cn
info@transgenbiotech.com

A handwritten signature in black ink that reads "Heng Zheng".

Manager, Quality Control Department

13/04/2021