

GelFlamma™

High Reactivity& Specificity, Low toxicity

GelFlamma™ DNA Gel Stain dye is a state-of-the-art nucleic acid staining dye that can be utilized as a safe alternative to conventional ethidium bromide (EtBr) staining for the nucleic acid detection in agarose gels. Upon binding to DNA, GelFlamma™ DNA Gel Stain dye emits a bright red fluorescence light.

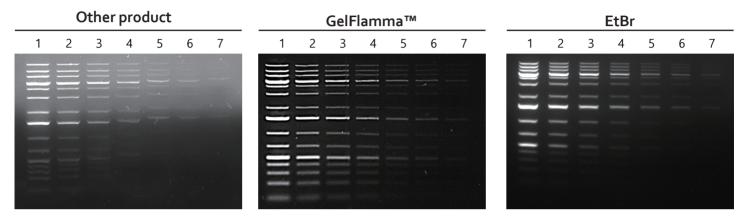


Figure 1. Serial dilutions of a 1kb DNA ladder were loaded for comparison. This comparison included comparable products such as GelFlamma™ and EtBr.

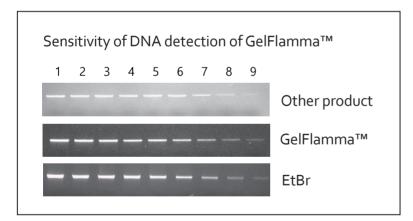


Figure 2. Gel analysis of serial diluted gDNA

- A safe alternative to EtBr for nucleic acid detection in agarose gels.
- Excitation at 480 nm, emission at 600 nm.
- Superior sensitivity against over EtBr
- Non-toxic, non-mutagenic, and non-carcinogenic
- An alternative choice for nucleic acid staining in agarose gels.

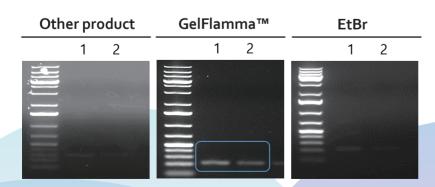


Figure 3. Gel analysis of PCR products using DNA staining solutions (Other, GelFlamma™, EtBr).
Lane 1, 400 ng of PCR products; Lane 2, 200 ng of PCR products

GelFlamma™ DNA Gel stain dye Protocol

- 1. Prepare a 100 ml agarose gel solution following your standard procedure.
- 2. Dilute GelFlamma™ with the gel solution at a 1:10,000 ratio (dye to solution), and mix well.
- 3. Slowly pour the mixed agarose gel solution into the gel tray to prevent bubbles.
- 4. Allow it to stand until the gel becomes hard.
- 5. Place the gel in a container with TAE/TBE running buffer and load your samples.
- **6.** Run gel electrophoresis and Visualize bands using a UV transilluminator or other gel documentation system.

NOTE:

- Insufficient GelFlamma™ Solution ratio can impact movement of DNA fragments.
- When increasing the agarose gel concentration, it is advisable to adjust the GelFlamma™ concentration accordingly
- Prolonged UV light exposure can harm DNA, so be cautious.
- Fluorescent dye can degrade when exposed to light, store in a dark.
- Store agarose gels in light-blocking containers and use them promptly (within 2 weeks).

Storage and handling

- Store the product at 4°C, protected from light, and it remains stable for a minimum of 6 months from the date of receipt when stored as recommended.
- While GelFlamma™ has undergone extensive safety testing, BioActs recommends following common safety precautions when working with it in a laboratory setting.

Order information

Product name	Amount	Catalog number
GelFlamma™ Gel stain dye	10,000X/1mL	TGFD0001
	10,000X/10 μL (tester)	TGFD0001-T

HEADQUARTER

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