ZENBIOCHEM

Eco-Driven Solutions for Life Science

eDNAsafe™ Nucleic Acid Stain

Catalog No.	Volume	No. of Gels (50mL volume)
ZEN-001	250 µL	50
ZEN-002	500 µL	100
ZEN-003	1 mL	200

Description

eDNAsafe™ Nucleic Acid Stain is a highly sensitive fluorescent stain designed as a safer alternative to ethidium bromide (EtBr) for DNA visualization in agarose gels. It exhibits significantly lower toxicity and mutagenic potential, making it safer for users and the environment. It provides bright, sharp, and clear DNA band visualization under UV or blue-light transillumination, making it ideal for routine molecular biology applications.

Storage

Store at room temperature up to 6 months, protected from light. For long term, sample can be stored at 4 °C. Avoid repeated freeze–thaw cycles.

Materials Required

- eDNAsafe™ Nucleic Acid Stain (10,000X in DMSO)
- 1× TAE buffer
- Agarose

Disclaimer

For research use only. Not for diagnostic or therapeutic use. Not for resale or commercial distribution.

Scan the QR code below for more product details:

Protocol: In-Gel Staining

1. Prepare an agarose gel (0.8–2%) in 1× TAE buffer.
2. Heat until the agarose is completely dissolved.
3. Allow it to cool to approximately 50–60 °C.
4. Add 1 µL eDNAsafe™ per 10 mL of gel solution and mix gently by swirling. Calculate the required dye volume based on the total gel volume.
5. Pour the solution into the gel casting tray with combs in place, avoiding bubbles.
6. Load DNA and perform electrophoresis as usual.
7. Visualize the gel using a transilluminator.
8. Image acquisition: For better quality data
   - Change filter in Gel doc to SYBR Green/SYBR Safe
   - Increase exposure time if the intensity of band is weak.
   - Compatible with blue-light transilluminators or UV

General Tips

- Briefly spin down stain before use.
- Wear lab coat, gloves, and eye protection.
- Avoid bubbles while casting the gel
- Dispose of gels and buffers per local regulations.
- No hazardous waste handling required.
- DMSO may solidify at 4 °C, thaw before use.

Developed by

Zenbiochem Limited
London BioScience Innovation Centre
2 Royal College Street, London NW1 0NH, UK
https://zenbiochem.com
info@zenbiochem.com
+44-7411560232 | +44 2076911122

Marketed by

Quadrivalent Labs Private Limited
NITK-STEP,
National Institute of Technology Karnataka,
Surathkal, Mangaluru,
Karnataka 575025, India
https://quadrivalentlabs.com
info@quadrivalentlabs.com
+91-9113233494 | +91-9870490309

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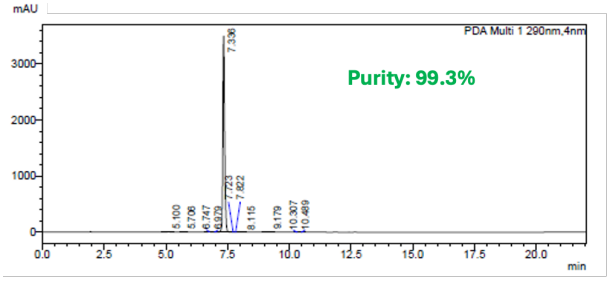
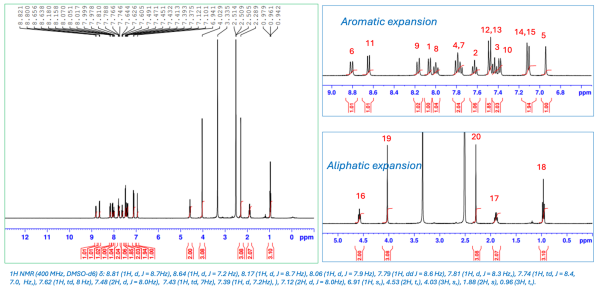
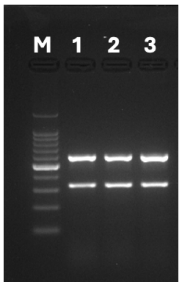


Purity of eDNAsafe™ Nucleic Acid Stain: Purity > 99%, confirmed by HPLC.



Characterisation of eDNAsafe™ Nucleic Acid Stain by NMR.



Detection of PCR products using Agarose Gel electrophoresis: Lane M: 100 bp ladder. Lanes 1–3: Amplified PCR products electrophoresed on 2% agarose gel (pre stained with 1x eDNAsafe™) in 1× TAE buffer Visualized under UV transillumination.