

FloroSafe DNA Stain

Cat. No.: BIO-5170-50ul
BIO-5170-1ml

Concentration: 20,000X

Supplied with: -

Storage: 4°C
Protect from light

DESCRIPTION

FloroSafe DNA Stain can be used as a safer alternative compared to the traditional ethidium bromide stain used for DNA and RNA detection in agarose gel. Compared to ethidium bromide, it has low toxicity and mutagenicity.

Applications

Non-carcinogenic alternative of Ethidium Bromide.

Protocol:

Precasting:

- Prepare 100ml of 0.8 – 3.0% agarose gel solution.
- Heat till solution is completely clear.
- Cool gel to 50 – 60°C.
- Add 4 – 6µl of FloroSafe DNA Stain and mix gently with gel.
- Cast gel into gel tray.
- Load samples into solidified gel and perform electrophoresis.
- Detect bands under UV illuminator.

Post-staining:

- Gel thickness should be less than 0.5cm, 10 – 25µl of the stain should be used per 100ml of buffer.
- Staining time is optimized between 5 – 60 minutes; amount of stain varies with gel thickness and concentration of agarose.

Note:

FloroSafe DNA Stain is non-carcinogenic, however may cause irritation to the eyes and skin. Wear protective gloves when handling.

FloroSafe DNA Stain can be used as precast agarose gels. When better sensitivity is required, post-staining is recommended.

Safety Test Report

Glove Penetration Test:

Latex – Negative

Nitrile - Negative

Ames Test:

Non-mutagenic

Acute Oral Toxicity Test:

Non-toxic

Mouse Bone Marrow Micronucleus Test:

Negative

In vitro Chromosomal Aberration Test:

Negative