CelGel ready DNA stain and loading dye

CM1410-1000 1ml

Store the kit at -20°C

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Notes

For research use only.

Technical support

For technical support please e-mail info@celticmolecular.com

What's in the box

Cat no.	CM1410-1000
Pack size	1ml
CelGel ready DNA stain and loading dye	1x1ml

Product description

CelGel ready DNA stain is non-mutagenic fluorescent intercalating dye that allows post-electrophoretic visualization of nucleic acid bands in agarose gels on a blue light- or UV transilluminator. It is supplied in 6x loading buffer containing three dyes (Bromophenol Blue, Xylene Cyanol FF, and Orange G) that can be used to monitor the progress of the electrophoresis process. With superior sensitivity, CelGel ready DNA stain can detect as little as 0.14ng DNA, although at least 50ng DNA is recommended for routine analysis (avoiding a visible shift in the migration pattern). As a non-hazardous agent, intercalating into double stranded DNA (dsDNA), single stranded DNA (ssDNA) and RNA, it is the ideal alternative to Ethidium Bromide.

Shipping and storage instructions

Store the kit at -20°C for up to 24 months. This product is shipped on ice blocks and can be kept at 4°C for 12 months without affecting the product performance. Limit direct light exposure for extended periods.

Properties

CelGel ready DNA stain is supplied in 6x loading buffer and should be combined with DNA/RNA samples or DNA molecular weight markers prior to loading onto an agarose gel for analysis via electrophoresis. The fluorescent dye enables visualization of nucleic acids bands on blue light- or UV gel documentation systems.

Tracking dyes: Bromophenol Blue, Xylene Cyanol FF, and Orange G
Format: Ready-to-use
Approximate fluorescence excitation/emission maxima when bound to DNA/RNA: 300, 495/537nm

Reaction set-up

1. Vortex CelGel ready DNA stain to achieve a homogenous solution.
2. Combine 1µl CelGel ready DNA stain and loading dye with 5µl sample (or DNA ladder) and mix by pipetting.
3. Load each sample onto an agarose gel and perform electrophoresis according to standard procedure.
4. Remove the gel from the buffer and place it on a blue- or UV light transilluminator to immediately view bands.
5. Gels can be post-stained with Ethidium Bromide if desired.