Data Sheet (Cat.No.TD0002)

TargetMol

CelRed nucleic acid gel stain 10,000× concentrate in water

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from direct sunlight,High Volatility
Store at -20°C
Actual storage temperature shall be subject to the COA.

Biological Description

Description	CelRed nucleic acid gel stain 10,000× concentrate in water is a fluorescent dye used for nucleic acid staining, suitable for staining and detecting dsDNA, ssDNA, or RNA in agarose gels or polyacrylamide gels.
Targets(IC50)	Others
In vitro	When CelRed Stain is used to detect DNA by electrophoresis, it can be stained before electrophoresis (pre-staining, gel staining) or after electrophoresis (post-staining, bubble staining). 1. Gel staining method 1. Prepare agarose gel solution of appropriate concentration as needed. 2. After the agarose is completely dissolved and cooled appropriately, add CelRed Stain at a ratio of 5 μL dye per 100 mL gel solution (1×). After mixing, pour the agarose gel solution into the mold for preparing the gel. 3. After the gel solution solidifies, load the sample for electrophoresis according to the conventional method, and observe it under ultraviolet irradiation after the electrophoresis is completed. Notes: 1. The gel staining method is not suitable for prefabricated polyacrylamide gels. For polyacrylamide gels, please use the bubble staining method. 2. CelRed Stain has good thermal stability and can be added directly to the hot agarose gel solution without waiting for the gel solution to cool. 3. CelRed Stain can be pre-mixed with the electrophoresis buffer containing agarose powder and heated to make gel. 2. Foam staining method 1. Perform electrophoresis according to the conventional method, and do not add any dye when making the gel. 2. Dilute CelRed Stain about 3,300 times into 0.1 M NaCl to make 3× CelRed Stain staining solution (for example, add 30 μL CelRed Stain to 100 mL 0.1 M NaCl solution). 3. Immerse the gel completely in 3× CelRed Stain staining solution and stain it for 30 minutes at room temperature in the dark. The staining time is determined by the gel concentration and thickness. The thicker the gel and the higher the concentration, the longer the staining time required. 4. After staining, it can be observed under ultraviolet light.

In vitro	Notes: 1. 3× CelRed Stain staining solution can be prepared in large quantities and needs to be stored in the dark at room temperature. 2. When staining by the foam staining method, the amount of dye used is large, and a single use of 3× CelRed Stain staining solution can be reused about 3 times. The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481