3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone (800) 325-5832 (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

ProductInformation

BlueViewÔ 10X TAE BUFFER
BlueViewÔ 10X TBE BUFFER

Product No. **T 8935** and **T 9060**
Store at room temperature

Product Description

BlueView™ 10X buffers are specially formulated for use as an electrophoresis running buffer and for the preparation of agarose gels. When used both for preparation of the gel and as the running buffer, BlueView 1X buffer allows the visualization of nucleic acid bands during electrophoresis. DNA bands can be observed in ambient light as they separate in the gel. Bands containing 40 ng DNA have been visualized routinely in Sigma's laboratories.

Precautions and Disclaimer

Sigma's BlueView 10X buffer is for laboratory use only. Not for drug, household or other uses. See MSDS for toxicity and hazard information. BlueView has been tested and not been found to be mutagenic by Ames toxicity studies.

Procedure

1. Dissolve the entire contents of a package of BlueView 10X buffer to the volume indicated on the package label with distilled or deionized water. Mix well until solids are dissolved.

2. Prepare the gel by adding the agarose to a sufficient volume of water to achieve 90% of the final gel volume, heating until the agarose is completely dissolved, and cooling to approximately 60 °C. Add the 10X stock buffer to the cooled agarose to give a final 1X concentration.

3. Dilute the 10X stock 10-fold to prepare 1X BlueView running buffer.

4. Run the gel according to standard conditions in 1X BlueView buffer[1].

Results

BlueView stained DNA may be isolated from agarose gels and used in downstream applications such as restriction digestion, ligation, random prime labeling and PCR. BlueView stained DNA will transfer in Southern blot applications and may be used in hybridizations. Depurination with a solution of 0.2 N HCl will cause the BlueView gel to become clear. Denaturation with a solution of 0.5 N NaOH and 1.5 M NaCl will cause the gel to become faint red. Neutralization with a solution of 1 M Tris, pH 7.4, and 1.5 M NaCl will cause the gel to return to its original blue color.

Storage

Store the reconstituted BlueView 10X buffer at room temperature. Use this solution within 6 months of reconstitution.

References

1. Sambrook, J., et al., Molecular Cloning: A Laboratory Manual, Third Edition (Cold Spring Harbor Laboratory, NY, 2000)

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