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Product Information

DENHARDT'S SOLUTION

50X Concentrate

Product Number **D 2532**

Storage Temperature $-20\text{ }^{\circ}\text{C}$

Product Description

A solution of bovine serum albumin, ficoll and polyvinylpyrrolidone each at a concentration of 1%.

Endonuclease-exonuclease, RNase: None detected

Suitable for use in nucleic acid hybridizations.

Precautions and Disclaimer

For laboratory use only.

Not for drug, household or other uses.

Product Profile

Endonuclease-Exonuclease

One μg of λ Hind III fragments was incubated for 16 hours at $37\text{ }^{\circ}\text{C}$ with $5\text{ }\mu\text{l}$ of Denhardt's Solution in a $50\text{ }\mu\text{l}$ reaction mixture containing 30 mM Tris-HCl, pH 7.8, 50 mM NaCl and 10 mM MgCl_2 . No degradation of the DNA fragments was detected by agarose gel

electrophoresis. Detection limit: Degradation of 10% of the DNA substrate is detectable.

Nucleic Acid Hybridization Suitability

A dot blot hybridization was performed using Denhardt's Solution in both the prehybridization and hybridization solutions. The prehybridization solution contained 5X Denhardt's solution and was used at a volume of 20-100 μl per cm^2 nitrocellulose. Biotinylated λ Hind III, EcoR I DNA fragments detected at least 50 picograms of the target λ DNA.

RNase

Two μg of transfer RNA were incubated with $5\text{ }\mu\text{l}$ of Denhardt's Solution in a $50\text{ }\mu\text{l}$ reaction mixture containing 30 mM Tris-HCl, pH 7.8, 50 mM NaCl and 10 mM MgCl_2 for 16 hours at $37\text{ }^{\circ}\text{C}$. No degradation of the tRNA was detected by polyacrylamide gel electrophoresis. Detection limit: Degradation of 10% of the tRNA substrate is detectable.

PCS/KMR 10/01

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