

Denhardt's 50X Solution, 50ml**PG-717-50ml**

Denhardt's 50X Solution is a ready-to-use blocking reagent widely used in molecular biology for nucleic acid hybridization applications. It reduces non-specific binding of nucleic acid probes to membranes during Southern blotting, Northern blotting, colony hybridization, plaque hybridization, and in situ hybridization procedures, thereby improving signal-to-noise ratio and enhancing detection sensitivity. The solution consists of bovine serum albumin (BSA), Ficoll 400, and polyvinylpyrrolidone (PVP), which act as blocking agents to saturate non-specific binding sites.

Parameter Specification

Product Name Denhardt's 50X Solution

Description Ready-to-use blocking reagent for nucleic acid hybridization applications

Composition 1% (w/v) Bovine Serum Albumin (BSA), 1% (w/v) Ficoll 400, 1% (w/v) Polyvinylpyrrolidone (PVP) in water

Concentration 50X

Appearance Clear to slightly opalescent solution

Sterility Sterile filtered

DNase Activity None detected

RNase Activity None detected

Endonuclease Activity None detected

Exonuclease Activity None detected

pH 7.0–8.0

Safety

Harmful if inhaled, swallowed, or absorbed through skin. Suspected carcinogen. May cause liver, kidney, and central nervous system damage following prolonged or repeated exposure. Use in a well-ventilated area and wear appropriate PPE including gloves, lab coat, and safety goggles. Avoid contact with skin, eyes, and clothing. Store away from heat and incompatible materials.