

Deoxyribonucleic acid from herring sperm

Product Number	BN33159
Storage Temperature	2-8°C
Molecular Weight	10,000 - 30,000

Product Description

DNA for hybridization is used to block non-specific binding of probes to membranes.^{1,2} This product is prepared by sonication of purified herring sperm DNA. Sonication shears the large molecular weight DNA to produce fragments in a size range of 587 to 831 base pairs. This range has been shown to be the most effective for hybridizations. The material is monitored during sonication by electrophoresis in order to determine the size range. Once sonication is complete, the material is denatured by boiling. This is a ready to use concentrated solution (9-12 mg/ml DNA). However, it will reanneal on standing at room temperature so it is recommended to boil the solution for 10 minutes and then cool ON ICE for at least 5 minutes prior to use. Cooling on ice will reduce the chances for reannealing, as it is more likely to reanneal if cooled at room temperature.

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

DNA is soluble in water at 5 mg per mL. Add slowly to stirring water and then heat gently (60° C or less) or dissolve overnight at 4° C

DNA has been stored successfully for several months at 4°C, pH 7.5 - 8, in 10 mM Tris with 1 mM EDTA. The addition of a bacteriostatic agent is not necessary.

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