

Bioactive

Nuclease S1 (*A. oryzae*)

Catalog # P5323 Size 10000 Units

Specification

Product Description	Solution. Activity on native (ds) DNA undetectable under the assay conditions.
Biological function	Nuclease S1 isolated from <i>Aspergillus</i> species specifically hydrolyzes both terminal and internal phosphodiester bonds of single-stranded DNA and RNA.
Host	Fungi
Theoretical MW (kDa)	~34
Form	Liquid
Preparation Method	Native protein chromatographically purified from <i>Aspergillus oryzae</i>
Activity	$\geq 100,000$ to 500,000 units per ml. One Unit hydrolyzes one microgram of denatured calf thymus DNA per minute at 37°C, pH 4.6.
Recommend Usage	S1 Nuclease Assay; Eliminate non-annealed polynucleotide tails and hair-pin loops in DNA-RNA or DNA-DNA duplexes in hybridization studies and in genetic recombination experiments.
Storage Buffer	In 30 mM sodium acetate, pH 4.6, 50 mM NaCl, 1 mM ZnCl ₂ , and 50% glycerol
Storage Instruction	Store at -20°C.

Applications

- Enzyme Activity