

Native Aspergillus oryzae Nuclease S1

Cat. No. NATE-0492

Lot. No. (See product label)

Introduction

Description Nuclease S1 isolated from Aspergillus oryzae exhibits endo-and exolytic hydrolytic

activity for the phosphodiester bonds of single-stranded DNA and RNA yielding 5'-phosphomononucleotide and 5'-phosphooligonucleotide end-products. It is used to digest non-annealed polynucleotide tails and hairpin loops in RNA and DNA duplexes and can be used to convert superhelical DNA to the linear form.

Applications Nuclease S1 from Aspergillus oryzae has been used in a study to assess a bi

ochemical method for mapping mutational alterations in DNA. It has also been used in a study to investigate the DNA damage and repair in a γ -irradiated rat brain

tumor.

Synonyms endonuclease S1 (Aspergillus); single-stranded-nucleate endonuclease;

deoxyribonuclease S1; deoxyribonuclease S1; nuclease S1; Neurospora crassa

single-strand specific endonuclease; S1 nuclease; single-strand

endodeoxyribonuclease; single-stranded DNA specific endonuclease; single-strandspecific endodeoxyribonuclease; single strand-specific DNase; Aspergillus oryzae

S1 nuclease; EC 3.1.30.1; 37288-25-8

Product Information

Source Aspergillus oryzae

Form Solution containing 30 mM sodium acetate, 50 mM NaCl, 1 mM ZnCl2, 50%

glycerol, 2 mg/ml protein

EC Number EC 3.1.30.1

CAS No. 37288-25-8

Unit Definition One unit will cause 1.0 microgram of single-stranded nucleic acid to become

perchloric acid soluble per minute at pH 4.6 at 37°C.

Storage and Shipping Information

Storage −20°C

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