Creative Enzymes
Diagnostic Enzymes

Deoxyribonuclease I (DNase I) from Bovine Pancreas

Product Information

Cat#	EXWM-5834
Source	Bovine pancreas
Description	DNase I is an endonuclease that digests single- or double-stranded DNA by hydrolyzing phosphodiester bonds, generating oligonucleotides with 5'-phosphate and 3'-OH ends. Its activity requires Ca^{2+} and is enhanced by Mg^{2+} or Mn^{2+}. In the presence of Mg^{2+}, it cuts randomly across DNA; with Mn^{2+}, it produces blunt or sticky ends. DNase I is widely used in DNA removal from RNA preparations and in cloning workflows. This product, purified from bovine pancreas, is supplied as a freeze-dried powder with ≥ 2000 Kunitz U/mg activity.
Activity	≥ 2000 Kunitz Units/mg protein
Synonyms	DNase I
Enzyme Commission Number	EC 3.1.21.1
Purity	≥ 80% by Biuret
Optimum pH	7.0–8.0
Inhibitors	β-Mercaptoethanol, chelating agent, SDS, actin
Appearance	White to light brown lyophilizate
Molecular Weight	ca. 31 kDa
Package	15 KU/10 x 15 KU

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