

Certificate of Analysis

Product Name : DNase I , RNase Free

Cat No : D0100 **Lot No : 11282314**

TEST	Specification	Result
Product Type	White or almost white crystalline powder	PASS
Source	Bovine Pancreas	Bovine Pancreas
Potency	> 2000 Units/mg	3,000
Assay	> 95%	> 95%
Residue on ignition	< 2.5%	< 2.5%

Description : Deoxyribonuclease I (DNase I) is an endonuclease that hydrolyzes double-stranded or single-stranded DNA preferentially at sites adjacent to pyrimidine nucleotides. The product of hydrolysis is a complex mixture of 5'-phosphate mononucleotides and oligonucleotides. In the presence of magnesium ion, DNase I attacks each strand of DNA independently and the cleavage sites are random. In the presence of manganese(II), DNase I cleaves both strands of DNA at approximately the same site. Most protocols use magnesium ion with DNase but for specific purposes, manganese is cited.

Supplied as a lyophilized powder. Purified precristalline DNase. All products from animal sources are produced from starting material of North American origin, collected in United States Department of Agriculture (USDA) approved facilities and inspected to be free of disease.

Unit Definition : One Unit causes an increase in absorbance at 260nm of 0.001 per minute at 25°C when acting upon highly polymerized DNA at pH 5.0.

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