

Deoxyribonuclease I

(DNase I) Deoxyribonuclease 5'-oligonucleotidohydrolase From bovine pancreas Ref. 1307

Lot N°:

CAS N°: MW: Appearance: Assay: Solubility: Protease:	[9003-98-9] ~ 31 kDa Off-white lyophilizate 3000 U/mg 5 mg/ml in water or 0.1M acetate buffer pH 5.0 Not detectable
Storage:	Keep in freezer for indefinite storage. No adverse effect ambient temperature for some days or in transit
	Note: The product must be stored at least -20 °C. When dissolved in buffer, the activity will be not changed for about ½ year. Thereafter, the activity might be decreased by a natural process. Therefore, if dissolved better to shock-freeze the product in liquid nitrogen and store at -80 °C. The usual storage buffer consists of a 50% aqueous RNase-Free glycerol solution containing 10 mM Tris-HCl (pH 7.5), 50 mM CaCl ₂ , and 10 mM MgCl ₂ . The DNase I reaction buffer is usually 10X-concentrated containing 100 mM Tris-HCl (pH 7.5), 25 mM MgCl ₂ , and 5 mM CaCl ₂ .
Handling:	Allow time for reaching ambient temperature before opening. Carefully avoid access of humidity in air. Samples exposed to air for more than 5 minutes should be desiccated in vacuum before returning into freezer
Safety Data:	Danger. Toxicity not reported. Inhalation of dust could cause sensitization
	Danger H334 Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation.

Unit definition:

That amount of enzyme causing the hydrolysis of highly polymerized DNA such that the increase of light absorbance (ΔA /min) at 260nm is 0.001 under specified standard conditions. Kunitz, M. (1950) J. Gen. Physiol. 33, 349, 363



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