

Technical Datasheet

Alkaline Phosphatase

(Calf Intestine)

Cat No:	PM-1025-01	Pack size:	1000U
Concentration:	_____ U/ μ l	Lot No:	_____
Protein (Lowry):	_____ mg/ml	Storage:	Store at -20°C .
Unit Definition:	One unit is the amount of enzyme required to hydrolyse 1 μ mole of p-nitrophenylphosphate in 1 min at 37°C .		
Reaction Buffer:	1.0 M diethanolamine, pH 9.8, 10 mM p-nitrophenylphosphate. 0.25 mM MgCl_2 .		
Storage Buffer:	10 mM Tris-HCl, pH 8.0, 1 mM MgCl_2 , 50 mM KCl, 0.1 mM ZnCl_2 and 50% glycerol.		
Storage:	Store CIAP at -20°C .		

QUALITY CONTROL:

Endonuclease: incubation of 5, 10 and 20U of enzyme with 0.5 μ g of pBR322 DNA at 37°C for 1 hour resulted in <5% conversion of RFI to RFII DNA. Reaction volume 10 μ l.

DNase, double-stranded: incubation of 10, 20 and 40U of Alkaline Phosphatase with 0.015 μ g of phosphate of [^{33}P]lambda DNA for 1 hour at 37°C resulted in 0.004 slope %-end released per unit of enzyme. Reaction volume 20 μ l.

DNase, single-stranded: incubation of 10, 20 and 40U of Alkaline Phosphatase with 0.015 μ g of phosphate of heat denatured [^{33}P]lambda DNA for 1 hour at 37°C resulted in 0.002 slope %-end released per unit of enzyme. Reaction volume 20 μ l.

RNase: incubation of 10, 20 and 40U of Alkaline Phosphatase with 0.015 μ g of [^{33}P] RNA transcript for 1 hour at 37°C resulted in 0.026 slope %-end label released per unit of enzyme. Reaction volume 50 μ l.