

Pyrophosphatase Inorganic, Thermostable

2,000 U/ml

Technical Specifications



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Catalog No. 30074-1	250 Units
Catalog No. 30074-2	(5 X 250 U)
Store at -20°C.	
For Research Use Only. Not for Use in Diagnostic Procedures.	

Product Description	Pyrophosphatase Inorganic, Thermostable: 2,000 U/ml Forms orthophosphate by catalyzing the hydrolysis of inorganic pyrophosphate. Suitable for thermocycling applications.
Storage Buffer	20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1mM EDTA, 1 mM DTT and 50% glycerol.
Stability	Pyrophosphatase Inorganic, Thermostable is stable for one year from the date received if stored at -20°C.
Recommended Reaction Conditions	2-5 U of Pyrophosphatase Inorganic, Thermostable in 1X PCR Reaction Buffer at 50-100°C
Activity Determination	One unit is the amount of enzyme that will generate 1µmol of phosphate per minute from Pyrophosphatase Inorganic, Thermostable in a 10 minute reaction at 75°C in 50mM Tricine [pH 8.5], 1 mM MgCl ₂ 0.32 mM PPI, in a reaction volume of 0.5 ml
Absence of Endonuclease or Nicking Activity	Incubation of 10 U of Pyrophosphatase Inorganic, Thermostable, with 1 µg of supercoiled pBR322 DNA for 16 hours at 70°C resulted in no detectable conversion to relaxed or linear forms by agarose gel electrophoresis.
Absence of Exonuclease Activity	Incubation of 10 U of Pyrophosphatase Inorganic, Thermostable, with 1 µg of HindIII-cut lambda DNA for 16 hours at 37°C and 65°C resulted in no smearing of bands on agarose gels.
Purity	>99% pure by SDS-PAGE. No detectable DNA contamination.

Heat Inactivation: No

Legal & Warranty

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