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Certificate of Analysis

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Alkaline Phosphatase

Catalog No: 1025

Lot No: 2011002

Package Size: See Product Label

Concentration: 20 units/ μ l

Protein (Lowry): 7.080 mg/ml

Storage Conditions: Store at -20°C

Unit Definition

One unit is the amount of enzyme required to hydrolyze 1 μ mole of p-nitrophenylphosphate in 1 minute at 37°C

Heat Inactivation

70°C

Assay Conditions

1 mM diethanolamine (pH 9.8)

0.25 mM MgCl_2

10 mM p-nitrophenylphosphate

Reaction volume is 3.05 ml

Storage Buffer

10 mM Tris-HCl (pH 8.0)

50 mM KCl

1 mM MgCl_2

0.1 mM ZnCl_2

50% (v/v) glycerol

Quality Control

Protein Concentration: Protein concentration was determined using the Lowry Assay.

Nicking: 5, 10, and 20 units of alkaline phosphatase were incubated with pBR322 DNA for 1 hour at 37°C .

DNase: 10, 20, and 40 units of alkaline phosphatase were incubated with [^{32}P] labeled Lambda DNA (both single and double stranded) for 1 hour at 37°C .

RNase: 10, 20, and 40 units of alkaline phosphatase were incubated with [^{32}P] labeled RNA transcript for 1 hour at 37°C .

For more information or to re-order, please visit www.chimerx.com