

Document Type Product Specification HQ-SPEC-003.2
Title Alkaline Phosphatase, ALPI8F Page 1 of 1

Product: ALKALINE PHOSPHATASE

Product code: ALPI8F

E.C. number: 3.1.3.1

CAS number: 9001-78-9

EINECS number: 232-631-4

Systematic name: Orthophosphoric-monoester phosphohydrolase (alkaline optimum).

Alkaline phosphomonoesterase; Phosphomonoesterase; Glycerophosphatase.

Source: Bovine intestinal mucosa

Form: A Freeze-dried material.

Solubility Dissolves readily at 5mg/ml in enzyme diluent to form a clear solution.

Storage conditions: Store desiccated at -15°C or below. Allow to come to room temperature before

opening. Before returning to storage, re-desiccate under vacuum over silica gel for a

minimum of four hours. Re-seal before returning to -15°C or below.

Unit definition: Diethanolamine, 37°C, pH 9.8

That amount of enzyme causing the hydrolysis of one micromole of p-nitrophenyl

phosphate per minute at 37°C and pH 9.8.

Glycine, 25°C, pH 9.6

That amount of enzyme causing the hydrolysis of one micromole of p-nitrophenyl

phosphate per minute at 25°C and pH 9.6.

Specific activity: Not less than 2000 DEA U/mg protein, (Equivalent to approximately 667 Glycine

U/mg protein

Bovine IgG: Not detectable

Chromatogram analysis: Greater than 90% pure by molecular exclusion chromatography

Typical properties

Protein Concentration: 0.15 to 0.45 mg/mg protein (Determined by Biuret procedure)

Available amino groups: 8 - 13 moles amino groups per mole enzyme

Carbohydrate content: 4.0 - 6.5%

Print Date: 12 August 2021 Effective Date: Refer to Q-Pulse