Product: **ALKALINE PHOSPHATASE**

Product code: **ALPI8G**

E.C. number: 3.1.3.1

CAS number: 9001-78-9

EINECS number: 232-631-4

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

Alternative name: Alkaline phosphomonoesterase; Phosphomonoesterase; Glycerophosphatase.

Source: Bovine intestinal mucosa

Form: A clear, almost colourless solution in 40% glycerol containing 6mM Tris/HCl, 6mM magnesium chloride and 0.12mM zinc chloride, pH approximately 7.6

Storage conditions: Store at 2°C to 8°C. *DO NOT FREEZE.*

Unit definition: *Glycine*: That amount of enzyme causing the hydrolysis of one micromole of *p*-nitrophenyl phosphate per minute at 25°C and pH 9.6 (glycine buffer).

DEA: That amount of enzyme causing the hydrolysis of one micromole of *p*-nitrophenyl phosphate per minute at 37°C and pH 9.8 (diethanolamine buffer).

Specific activity: Not less than **1300 Glycine U/mg protein**, (Equivalent to approximately 4200 DEA U/mg protein).

Bovine IgG: Not detectable

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

Typical properties

Protein Concentration: 15-30 mg/ml (Determined by Biuret procedure)

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

Carbohydrate content: 4.0 – 6.5%