

Document Type **Product Specification** HQ-SPEC-004.1 Title Alkaline Phosphatase, ALPI8A Page 1 of 1 Product: ALKALINE PHOSPHATASE Product code: ALPI8A 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 solution in 3.2M ammonium sulphate, containing 0.001M magnesium chloride and 0.0001M zinc chloride, pH 7.0 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:** >2000 DEA U/mg protein **Bovine IgG:** Not detectable Chromatogram analysis: Greater than 90% pure by molecular exclusion chromatography Typical properties Protein **Concentration:** 5 - 15 mg/ml (Determined by Biuret procedure) Available amino 8 - 14 moles amino groups per mole enzyme groups: Carbohydrate content: 4.0 - 6.5%

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