

<b>Product:</b>	<b>ALKALINE PHOSPHATASE</b>
<b>Product code:</b>	<b>ALPI11G</b>
<b>E.C. number:</b>	3.1.3.1
<b>CAS number:</b>	9001-78-9
<b>EINECS number:</b>	232-631-4
<b>Systematic name:</b>	Orthophosphoric-monoester phosphohydrolase (alkaline optimum).
<b>Alternative name:</b>	Alkaline phosphomonoesterase; Phosphomonoesterase; Glycerophosphatase.
<b>Source:</b>	Bovine intestinal mucosa
<b>Form:</b>	A clear, almost colourless solution in 50% glycerol containing 0.005M Tris/HCl, 0.005M magnesium chloride and 0.0001M zinc chloride, pH approximately 7.0.
<b>Storage conditions:</b>	Store at 2°C to 8°C. <i>DO NOT FREEZE.</i>
<b>Unit definition:</b>	<i>Glycine:</i> That amount of enzyme causing the hydrolysis of one micromole of <i>p</i> -nitrophenol phosphate per minute at 25°C and pH 9.6 (glycine buffer). <i>DEA:</i> That amount of enzyme causing the hydrolysis of one micromole of <i>p</i> -nitrophenol phosphate per minute at 37°C and pH 9.8 (diethanolamine buffer).
<b>Activity:</b>	Not less than <b>1800 Glycine U/mg protein</b> (Equivalent to approximately 5400 DEA U/mg protein).
<b>Bovine IgG:</b>	Not detectable
<b>FPLC analysis:</b>	Greater than 90% pure by molecular exclusion chromatography.

#### Typical properties

<b>Protein concentration:</b>	10-20 mg/ml (Determined by Biuret procedure.)
<b>Available amino groups:</b>	8 - 13 moles amino groups per mole enzyme
<b>Carbohydrate content:</b>	4.0 – 6.5%