

Document Type
 Title

Certificate of Analysis
 ALPI13G

HQ-COA052 .2
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Analytical Data		Best Before:	
Date of Manufacture: 30 October 2023		30 October 2033	
Product Alkaline Phosphatase (bovine intestinal mucosa)		Batch 1916BA2	Code ALPI13G
Activity		Form	
(Glycine, 25°C, pH 9.6)		A clear, almost colourless solution in 40% glycerol, containing 6mM Tris/HCl, 6mM Magnesium chloride and 0.12mM Zinc chloride, pH approximately 7.6	
(Diethanolamine, 37°C, pH 9.8)			
40000 U/ml	127000 U/ml		
2600 U/mg protein	8250 U/mg protein		
2670 U/A ₂₈₀	8640 U/A ₂₈₀		
Unit definition			
<i>(Glycine, 25°C, pH 9.6)</i>			
That amount of enzyme causing the hydrolysis of one micromole of p-nitrophenyl phosphate per minute at 25°C and pH 9.6.			
<i>(Diethanolamine, 37°C, pH 9.8)</i>			
That amount of enzyme causing the hydrolysis of one micromole of p-nitrophenyl phosphate per minute at 37°C and pH 9.8.			
Spectrophotometric data		Solubility	
1% A ₂₈₀ = 9.7			
Protein concentration			
15.4 mg protein/ml (Biuret)			
Associated activity		Associated material	
Available amino groups: 7.4 mol/mol enzyme		Purity	
Bovine IgG: Not detected		>90% as determined by molecular exclusion chromatography. (See attached chromatogram)	
Carbohydrate content: 4.6 %			
Storage conditions		Approved by	
Store between +2°C and +8°C.		Sian Hayman 22 Nov 2023	
Do not freeze		Checked by	
		M.A. Davies 22 Nov 2023	
		M Davies (Quality Systems Specialist)	