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Certificate of Analysis and Data Sheet

Alkaline Phosphatase

Catalog No.

228-10046

Source:

Calf Intestine

Synonyms

EC 3.1.3.1, IAP, AP.

Description

The Alkaline Phosphatase is purified by affinity chromatography, which results in an enzyme of high specific activity and purity.

Alkaline Phosphatase is Dimeric protein having a molecular weight of 140 kDa, one Zn⁺⁺ ion is tightly bound to each subunit, and another less tightly bound is involved in the catalytic reaction. Mg⁺⁺ stimulates the catalysis. The binding site for Mg⁺⁺ is different to that of Zn⁺⁺, but will be occupied by excess Zn⁺⁺ followed by loss of enzyme activity.

Physical Appearance

Sterile Filtered clear colorless solution.

Formulation

50% glycerol, 5mM MgCl₂, 0.1mM ZnCl₂ and 5mM TRIS, pH 7.0.

Stability

AP should be stored at 4°C.

Please Do-Not freeze.

Biological Activity

>1000 U/mg (pH 9.6, 25°C and 0.025M glycine, 10% glycerol as buffer).

Purity

95% pure by Gel Filtration.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**