

ALPL

Native Porcine Alkaline Phosphatase

Catalog No. CSI10375A Quantity: 5 KU

CSI10375B 10 KU

Alternate Names: ALPA, ALP, Orthophosphoric-Monoester Phosphohydrolase

Description: Alkaline phosphatase has become a useful tool in molecular biology laboratories, since

DNA normally possesses phosphate groups on the 5' end.

Alkaline phosphatase (ALP) is a hydrolase enzyme responsible for removing phosphate groups in the 5- and 3- positions from many types of molecules, including nucleotides, proteins, and alkaloids. In humans, ALP is present in all tissues throughout the entire body, but is particularly concentrated in liver, bile duct, kidney, bone, and the placenta.

The optimal pH for ALP enzyme activity is pH 10 in standard conditions.

Alkaline phosphatase is used in laboratory tests to diagnose liver disease or monitor its course. An alkaline phosphatase (ALP) test may also be used to evaluate the liver when medications are taken that can damage the liver. Alkaline Phosphatase (ALP) levels can

be used to monitor the effectiveness of treatment for Paget's disease.

Gene ID: 100170147

Source: Porcine (Pig) Kidney

Formulation: Lyophilized from Tris-chloride

Purity: Research Grade

Protein: >0.5 mg protein/mg (Coomassie)

Biological Activity: Typically >50 U/mg powder at 37°C.

Alkaline Phosphatase Unit Definition: One unit will convert one micromole of pnitrophenyl phosphate to p-nitrophenol and phosphate per minute at 37°C in the

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presence of AMP (2-amino-2-methyl-1-propanol) at pH 10.35.

Specific Activity: >100 U/mg protein (Coomassie)

Storage & Stability: Store lyophilized protein at -20°C. Stable for 2 year from delivery.

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