Alkaline Phosphatase

Catalog # P9386 Size 10 mL

Specification

Product Description	Alkaline Phosphatase is derived from a recombinant *E.coli* strain that carries the TAB5 gene. The enzyme catalyzes the dephosphorylation of 5' and 3' ends of DNA and RNA phosphomonoesters. Also, it hydrolyses ribose, as well as deoxyribonucleoside triphosphates (NTPs and dNTPs). TAB5 Alkaline Phosphatase acts on 5´ protruding, 5' recessed and blunt ends. The Phosphatase can be used in many molecular biology applications, such as cloning or probe end labeling to remove the phosphorylated ends of DNA or RNA. In cloning experiments, dephosphorylation prevents the linearized plasmid DNA from self-ligation. It can also degrade unincorporated dNTPs in PCR reactions to prepare a template for DNA sequencing. The enzyme is completely and irreversibly inactivated by heating at 70 °C for 5 minutes, thereby making removal of the phosphatase prior to ligation or end labeling unnecessary.
Theoretical MW (kDa)	35
Form	Liquid
Concentration	5 U/µL
Recommend Usage	In Vitro Transcription The optimal working dilution should be determined by the end user.
Storage Buffer	10 mM Tris-HCl (pH 7.4), 1 mM $MgCl_2$, 0.01 mM $ZnCl_2$, 50% glycerol.
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- In vitro Transcription

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