

# Alkaline Phosphatase (PAP)

Catalog # D0009      Size 1000 Units

## Specification

<b>Product Description</b>	E.coli harboring the plasmid encoding the gene of alkaline phosphatase from Shewanella sp. SIB1 (PAP).
<b>Concentration</b>	5 units/uL
<b>Quality Control Testing</b>	<p>DNase: When 0.5 ug of lamda Hind III digest was incubated with 10 units of this enzyme in a 40 ul reaction mixture for 18 hours at 37°C no degradation of the DNA fragment is observed on agarose gel electrophoresis.</p> <p>Rnase: No RNase activity is observed by the use of RnaseAlert assay (Ambion). In this assay the reaction mixture containing the fluorescent-labeled RNA substrate was incubated with 10 units of this enzyme for 1 hours at 37°C.</p>
<b>Supplied Product</b>	<p>Kit Content</p> <p>1.10x Alkaline Phosphatase Reaction Buffer</p> <p>2.Dilution Buffer (1x Reaction Buffer)</p>
<b>Storage Buffer</b>	10 mM Tris-HCl (pH 7.5), 0.025 mM ZnCl <sub>2</sub> , 20.25 mM MgCl <sub>2</sub> , 50% glycerol.
<b>Storage Instruction</b>	Store at -20°C.
<b>Note</b>	<p>Unit Definition</p> <p>One unit is defined as the amount required to hydrolyzed 1.0 umole p-nitrophenyl phosphate per 1 minute in glycine/NaOH buffer at pH10.5 and 37°C</p>

## Applications

- Enzyme Activity