

Alkaline Phosphatase (Calf Intestine)

Code No. CAP-101

Lot No. *****

Size 1,000units

Source : Calf Intestine

Reaction : $\text{PRPO}_3^{2-} + \text{H}_2\text{O} \rightarrow \text{ROH} + \text{HPO}_4^{2-}$

Concentration : *** units/ μL

Unit Definition : One unit is defined as the amount required to hydrolyze 1 μmole p-nitrophenol phosphate in 1 minute at 37°C in 0.97 M Diethanolamine Buffer pH 10.2.

Storage Buffer : 30 mM Triethanolamine(pH7.6)
1 mM MgCl_2
50 % Glycerol

10× Alkaline Phosphatase Buffer : 500 mM Tris-HCl (pH8.0)

Contaminant Assay

1. Gel Assay for Non-specific Endonuclease : When 5 units of this enzyme is incubated with 1 μg of λ / *Hind*III digest for 16 hours at 37°C in a 50 μL reaction volume, no degradation of the DNA fragment is observed after agarose gel electrophoresis.
2. Gel Assay for Non-specific RNase : When 2 units of this enzyme is incubated with 2 μg of t-RNA for 16 hours at 37°C in a 50 μL reaction volume, no degradation of t-RNA is observed after polyacrylamide gel electrophoresis.

