

CERTIFICATE OF ANALYSIS

Product:	Alkaline Phosphatase (Fast)
Lot No.:	2084027121
Expiry Date:	09/2022
Storage:	-20°C
Activity:	1U/μl
Unit Definition:	One unit is defined as the amount of enzyme that will dephosphorylate 1 ug of pUC19 vector DNA cut with a restriction enzyme generating 5' recessed ends in 10 minutes at 37°C.

TESTS	SPECIFICATIONS	RESULTS
Protein Purity : (SDS-PAGE)	The enzyme is $\geq 95\%$ pure as determined by SDS-PAGE analysis using Coomassie Blue staining.	Pass
Endonuclease Activity :	The product was tested in a reaction containing a supercoiled plasmid DNA substrate. After incubation for 4 hours at 37°C, there was no significant change of the DNA substrate by agarose gel electrophoresis.	Pass
Exonuclease Activity :	The product was tested in a reaction containing a DNA substrate. After incubation for 16 hours at 37°C, there was no significant change of the DNA substrate by agarose gel electrophoresis.	Pass
Residual Host DNA :	The product was tested by TaqMan qPCR with primers specific for the E.coli 16S rDNA , and the results show that the E.coli genome residues less than 10 copies.	Pass

Quality Inspector