

Tth DNA Ligase

CERTIFICATE OF ANALYSIS

#EN13	Tth DNA Ligase
Concentration:	5 U/ μ l (75 CEU/ μ l)
Unit definition:	One unit of Tth DNA Ligase catalyzes the ligation of 50% of the cos sites present in 1 μ g of bacteriophage lambda DNA in 1 minute at 45°C. (1 unit of Tth DNA Ligase = 1 Ampligase [®] Unit = 15 cohesive end units (CEU))
Components:	Tth DNA Ligase, LOT: LCE785875 10x Tth Ligation Buffer, LOT: LCB785875
Batch Number:	LCZ785875
Expiry Date:	11.2021
Store at:	-20°C
Storage Buffer:	50 mM Tris-HCl (pH 7.5); 100 mM NaCl; 0.1 mM EDTA; 0.1% Triton X-100; 1 mM DTT; 50% glycerol
Shipping conditions:	Shipping on blue or dry ice
Reaction Buffer:	200 mM Tris-HCl (pH 8.3); 250 mM KCl; 100 mM MgCl ₂ ; 5 mM NAD; 0.1% Triton X-100
Specification Version:	PS-EN13-1.2019

QUALITY CONTROL

Ligase activity: Tth DNA ligase activity is assayed in a reaction containing 1 μ g of bacteriophage lambda DNA digested with Sall and SmaI, 1x Tth Ligation Buffer and varying amounts of enzyme for 100 minutes at 45°C. Results are assayed by agarose gel electrophoresis.

Result: PASSED

DNase contamination: Free of detectable exonuclease and endonuclease activities as judged by gel electrophoresis following incubation of 1 μ g of DNA with 5 U of enzyme for 4 h at 37°C.

Result: PASSED

RNase contamination: Free of detectable RNase activities as judged by gel electrophoresis following incubation of 1 μ g of RNA with 5 U of enzyme for 4 h at 37°C.

Result: PASSED

Quality authorized by: Justyna Leibner-Ciszak **Date:** 23.03.2020

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