

## CERTIFICATE OF ANALYSIS

**EL0013 T4 DNA Ligase, HC**  
**Packaging Lot: 2903694**  
Expiry Date: 31.12.2026 (DD.MM.YYYY)  
Storage: at -20±5°C

### Filling lots for components in package:

Lot	Quantity	Description
2854375	5 kU	T4 DNA Ligase, HC
2854947	5 × 1.5 mL	10X T4 DNA Ligase Buffer
2837189	5 × 1.5 mL	50% PEG 4000 Solution

### QUALITY CONTROL

Parameter	Method	Requirement	Result
Unit concentration	One unit of the enzyme catalyzes the conversion of 1 nmol of [32PPi] into Norit-adsorbable form in 20 minutes at 37 °C (Weiss unit).	30 U/μL ± 10%	Conforms
Protein concentration	Determined by a Bradford assay.	5.1±0.9 mg/mL	Conforms
Endo, exodeoxyribonucleases and phosphatases	Incubation of single stranded and double stranded labeled oligonucleotides with enzyme.	Not detectable	Conforms
Endodeoxyribonucleases (nicking activity)	Incubation of supercoiled plasmid DNA with enzyme.	Not detectable	Conforms
Ribonucleases	Incubation of [3H]-RNA with enzyme.	Not detectable	Conforms
Contaminating activities (in functional assay)	Absence of contaminating/nongenuine activities is tested in a blue/white cloning assay.	≤ 1% white colonies	Conforms

### ISO CERTIFICATION

Manufactured by Thermo Fisher Scientific Baltics UAB, in compliance with ISO 9001 and ISO 13485 certified quality management system.

Quality authorized by QC: **J. Žilinskienė**

