SibEnzyme®

T4 DNA Ligase

L **E320**
50,000 units
200,000 u/ml

Lot: 117
Exp: 07/20
Store at -20C

Please see recommendations on the last page

For more details scan the code

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CERTIFICATE OF ANALYSIS

Source: An *E.coli* strain that carries the cloned DNA Ligase gene from T4 bacteriophage.

Storage Conditions:
10 mM Tris-HCl (pH 7.4), 50 mM NaCl, 0.1 mM EDTA, 1mM DTT, 50% glycerol. Store at - 20°C.

1X SE-T4 DNA Ligase Buffer:
(pH 7.8@ 25° C): 50 mM Tris-HCl, 10mM $MgCl_2$, 10 mM DTT, 1 mM ATP.

Unit Definition:
One unit is defined as the amount of enzyme required to give 50% ligation of Hind III fragments of λ DNA (500 µg/ml) in 20 µl for 30 minutes at 16° C.

Quality Control Assays:
Nonspecific endonuclease assay: No appearance of nicked DNA was detected after incubation of 1µg supercoiled pUC19 DNA with 200 units of enzyme for 4 hours at 37° C.

Oligonucleotide Assay:
No detectable degradation of a single-stranded and double-stranded deoxyribooligonucleotides was observed after incubation with 200 units of enzyme for 3 hours at 37° C.

Reagents Supplied with Enzyme:
10X SE-T4 DNA Ligase Buffer.

Notes on Use:
A precipitate may be observed in T4 DNA Ligase Buffer after defrosting. Before the first use we recommend to heat this buffer at 37°C for 10-15 min and dissolve the precipitate by shaking. Also we recommend to dispense the buffer into small aliquots and store them at -20°C. Avoid defrosting the buffer more than 2-3 times. The aliquot of T4 DNA Ligase Buffer may be stored at +4° C during 7 days .