

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 MgCl₂, 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 2000 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 2000 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 .

**T4 DNA
Ligase
concentrated**



L

E330

250,000 units
2,000,000 u/ml

Lot: 52

Exp: 07/20

Store at -20C

Please see recommendations
on the last page

For more details
scan the code



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