

Restriction
Endonuclease



Hinf I

Recognition
Sequence:

G↓ANTC
CTNA↑G

S

E075

2,000 units
20,000 u/ml

Lot:

Exp:

Store at -20C

| SE-Buffers | B | G | O | W | Y | ROSE |
|------------|-------|--------|-----|--------|--------|------|
| %Activity | 25-50 | 75-100 | 100 | 75-100 | 75-100 | 100 |

37°C

80°C

O

λ

RR

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: An *E.coli* strain that carries the cloned *Hinf I* gene from *Haemophilus influenzae*.

Supplied in:

10 mM Tris-HCl (pH 7.5), 50 mM NaCl, 0.1 mM EDTA,
200 µg/ml BSA, 1 mM DTT, 50% glycerol.

Reaction Conditions:

1X SE-Buffer O. Incubate at 37° C.

1X SE-Buffer O (pH 7.6 @ 25° C):

50 mM Tris-HCl 100 mM NaCl
10 mM MgCl₂ 1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 80° C for 20 minutes.

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation: After 20-fold overdigestion with Hinf I, ~90% of the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 40 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 20 units of restriction endonuclease for 3 hours.

Enzyme Properties:

When using a buffer other than the optimal (Supplied) SE-Buffer, it may be necessary to add more enzymes to achieve complete digestion.

Reagents Supplied with Enzyme:

10X SE Buffer O.