Restriction Endonuclease

SibEnzyme®

Hind III

Recognition Sequence:

A↓AGCTT
TTCGA↑A

L

E074

20,000 units

20,000 u/ml

Lot:

Exp:

Store at -20C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	10-25	25-50	0-10	100	0-10	100

37°C | 80°C | W | λ | RR | minimal

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: An *E.coli* strain that carries the cloned Hind III genel from *Haemophilus influenzae Rd.*

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

Reaction Conditions:
1x SE-Buffer W ,BSA (100 µg/µl) .
Incubate at 37° C.

1X SE-Buffer W (pH 8.5 @ 25° C):
10 mM Tris-HCl 100 mM NaCl
10 mM $MgCl_2$ 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 required to digest 1 µg of λ DNA in 1 hour at 37° C in a total reaction volume of 50 µl. To obtain 100% activity,BSA should be added to the 1X reaction mix to final concentration of 100 µg/µl.

Quality Control Assays
Ligation : After 50-fold overdigestion with Hind III , approximately 90% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 20 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 W, BSA (10 mg/ml) .