Restriction Endonuclease

SibEnzyme®

Hae III

Recognition Sequence:

GG↑CC
CC↓GG

S

E067T

200 reactions

200 µl

Lot: 98

Exp: 04/21

Store at -20C

37°C | 80°C | ROSE | λ | TURBO

For more details scan the code

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CERTIFICATE OF ANALYSIS

Enzyme Properties:

1 µl of Turbo Hae III cuts 1 µg of DNA in 1x SE-Buffer ROSE in 10 min (assayed on Lambda and plasmid DNA). A short time of DNA digestion requires high quality purification of DNA sample (PCR fragments should be purified after amplification).

Please note that supercoiled plasmid DNA and PCR fragments may have varying rates of cleavage and sometimes need more time to be completely digested.

Standard protocol of Turbo reaction:

20 µl of the reaction volume:

10x SE-Buffer ROSE	- 2 µl
DNA	- 0.2-1 µg
Nuclease-free water	- to 20 µl

+ 1 µl of Turbo Hae III
Mix by pipette tip carefully.
Incubate at 37ºC for 10 min.

Description: Turbo Hae III is used for short time (10 min) DNA digestion in universal (ROSE) SE-Buffer.

Source: An E.coli strain, that carries the cloned Hae III gene from Haemophilus aegyptius.

Supplied in:
10 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:
1x SE-Buffer ROSE. Incubate at 37ºC.

Reaction Original SibEnzyme (ROSE) Buffer is a specially designed universal reaction buffer for the most Restriction Endonucleases. ROSE Buffer is perfect for DNA cleavage with SE Turbo Restriction Endonucleases and for double digestion.

Heat Inactivation:
Enzyme is inactivated by incubation at 80ºC for 20 min.

Quality Control Assays

Ligation: After digestion with 1 µl of Turbo Hae III, approximately 90% of the DNA fragments can be ligated with high-activity T4 DNA Ligase and recut.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 1 µl of restriction endonuclease for 3 hours.

Reagents Supplied with Enzyme:
10x SE-Buffer ROSE.

Applications:
-Fast DNA analysis
-Fast preparation of vectors for cloning
-Double digestion