

Restriction
Endonuclease



Bgl II

Recognition
Sequence:

A ↓ GATCT
TCTAG ↑ A

S

E027T

100 reactions

100 µl

Lot:

Exp:

Store at -20C

37°C

80°C

ROSE

λ

RR

TURBO

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Enzymes Properties:

1 µl of Turbo Bgl II cuts 1 µg of DNA in 1x SE-Buffer ROSE in 15 min (assayed on Lambda DNA 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 Bgl II

Mix by pipette tip carefully. Incubate at 37°C for 15 min.

Description: Turbo Bgl II is used for short time (15 min) DNA digestion in universal (ROSE) SE-Buffer.

Source: An *E. coli* strain that carries the cloned Bgl II gene from *Bacillus globigii*.

Supplied in:

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

Reaction Conditions:

1x SE-Buffer ROSE. Incubate at 37°C.

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 80 °C for 20 minutes.

Quality Control Assays

Ligation : After digestion with 1 µl of Turbo Bgl II, 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