Restriction Endonuclease

Bgl II

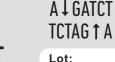
Recognition Sequence:

E027T

100 reactions 100 μl

For more details

scen the code



Exp:

Store at -20C

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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 <u>Nuclease-free water</u> - to 20 µl +1 µl of Turbo Bql II

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

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

<u>Source</u>: 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 $\mu g/ml$ 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 80 °C for 20 minutes.

Quality Control Assays

 $\label{eq:ligation} \begin{array}{c} \underline{Ligation}: \mbox{ After digestion with 1 } \mu l \mbox{ of Turbo Bgl II,} \\ \mbox{ approximately 90% of the DNA fragments can be} \\ \mbox{ ligated with high-activity T4 DNA Ligase and recut.} \end{array}$

 $\label{eq:ligonucleotide Assay:} No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 1 \mul of restriction endonuclease for 3 hours.$

Reagents Supplied with Enzyme: 10x SE Buffer ROSE.

Applications:

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