Restriction Endonuclease

AspA2I

Recognition Sequence:

C↓CTAGG
GGATC↑C

S

E245T
50 reactions
50 µl

Lot: 14
Exp: 04/21
Store at -20°C

37°C | 80°C | W+ | λ/HindIII | TURBO

For more details scan the code

Ph/F +7(383)333-6853
info@sibenzyme.com
www.sibenzyme.com

CERTIFICATE OF ANALYSIS

Enzyme Properties:
1 µl of Turbo AspA2 I cuts 1 µg of DNA in 1 x SE-Buffer W+ in 10 min (assayed on Lambda/HindIII 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:
10 x SE Buffer W+ - 2 µl
DNA - 0,2-1 µg
Nuclease-free water - to 20 µl
+ 1 µl of Turbo AspA2 I
Mix by pipette tip carefully.
Incubate at 37°C for 10 min.

Description: Turbo AspA2 I is used for short time (10 min) DNA digestion in SE-Buffer W+.

Source: *Arthrobacter species A2*

Supplied in: 10 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 100 µg/ml BSA, 50% glycerol.

Reaction Conditions:
1 x SE-Buffer W+. Incubate at 37°C.

1 x SE-Buffer W+ (pH 8.5@ 25°):
10 mM Tris-HCl
10 mM $MgCl_2$
100 mM NaCl
1 mM DTT
100 µg/ml BSA.

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

Quality Control Assays
Ligation: After digestion with 1 µl of Turbo AspA2 I, 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:
10 x SE-Buffer W+.

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