

Bsa29 I

AT L CGAT Recognition Sequence:

E206T 5.000 units 20,000 u/ml

SE-Buffers

scan the code

Restriction

Endonuclease

TAGC 1 TA Lot: 20

Dam TURBO

Exp: 09/20 Store at -20°C

100

For more details



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CERTIFICATE OF ANALYSIS

Description: Turbo Bsa29 I can be used for short time (5-10 min) DNA digestion as well as for standard

reaction. The reaction can be performed using optimal or universal (ROSE) Buffer. Buffer ROSE is perfect for double digestion.

Source: Bacillus stearothermophilus 29

Supplied in: 10 mM Tris-HCl (pH 7.5), 250 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol. 200 µg/ml BSA, 50% alvcerol.

Reaction Conditions:

10 mM MaCl.

1 x SE-Buffer G or 1 x SE-Buffer ROSE. Incubate at 37°C.

1 x SE-Buffer G (pH 7.6@ 25°): 10 mM Tris-HCl 50 mM NaCl

1 mM DTT

Heat Inactivation: Enzyme is inactivated by incubation at 65°C for 20 minutes.

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl. Quality Control Assays

Ligation: After 20-fold overdigestion with Bsa29 I,

>90% of the DNA fragments can be ligated with

resulted in the same pattern of DNA bands as a

16-Hour Incubation: A 50 µl reaction containing 1 µg

of DNA and 40 units of enzyme incubated for 16 hours

Oligonucleotide Assay: No detectable degradation of a

single-stranded and double-stranded oligonucleotide

was observed after incubation with 20 units of

Blocked by overlapping dam-methylation(G^mATC):

restriction endonuclease for 3 hours.

10 x SE-Buffer G, 10 x SE-Buffer ROSE.

Reagents Supplied with Enzyme:

Blocked by CG methylation.

GATCGATC.

T4 DNA Ligase and recut.

reaction incubated for 1 hour.

Applications: -Fast DNA analysis -Fast preparation of vectors for cloning -Double digestion **Enzyme Properties:** 1 μl of Turbo Bsa29 I cuts 1 μg of DNA in 1 x SE-Buffer G or universal 1 x SE-Buffer ROSE in 5-10 min (see the protocol below). Short time DNA digestion requires high quality purification of DNA sample. This enzyme

can digest DNA at standard incubation time (1-16 hours) as well. Turbo reaction protocol: 20 ul of the reaction volume: Reaction Buffer (x10) - 2 ul Plasmid DNA - 1-2 µl (up to 1 µg) or PCR product - 5-10 µl (~0,2 µg) Sterile water - up to 20 ul + 1 µl of Turbo Restriction Endonuclease

Incubate at 37°C for 5-10 min.

Turbo DNA Digestion:

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