

Xba I

T L CTAGA Recognition Sequence: AGATC T

E142T Lot: 65 Exp: 09/19 10,000 units Store at -20C

λ/Hind III

RE

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20,000 u/ml 75-100 75-100 50-75 75-100



Restriction

Endonuclease





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

TURBO

double digestion.

Supplied in:

100 mM NaCl, 10 mM MgCl₂, 1 mM DTT

gene from Xanthomonas badrii.

1 mM DTT. 50% alvcerol.

Reaction Conditions:

CERTIFICATE OF ANALYSIS

(10-15 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

Source: An E.coli strain that carries the cloned Xba I

10 mM Tris-HCl (pH 7.6), 50 mM NaCl, 0.1 mM EDTA.

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

1X SE-Buffer 0 (pH 7.6@ 25°C): 50 mM Tris-HCl,

Enzyme is inactivated by incubation at 65°C for 20

Description: Turbo Xba I can be used for short time

enzyme required to digest 1 μq of λ DNA (Hind IIIdigest) in 1 hour at 37° C in a total reaction volume of 50 ul.

Quality Control Assays Ligation: After 20-fold overdigestion with Xba I.

approximately 90% of the DNA fragments can be ligated with high-activity T4 DNA Ligase and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 20 units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.

Oligonucleotide Assay: No detectable degradation of a

Unit Definition: One unit is defined as the amount of

single-stranded and double-stranded oligonucleotide was observed after incubation with 20 units of restriction endonuclease for 3 hours.

Reagents Supplied with Enzyme: 10x SE-Buffer O. 10x SE-Buffer ROSE Applications: -Fast DNA analysis -Fast preparation of vectors for cloning -Double digestion

Enzyme Properties:

1 µl of Turbo Xba I cuts 1 µg of DNA in 1x SE-Buffer 0 or universal 1x SE-Buffer ROSE in 10-15 min (see the protocol below). Short time DNA digestion requires

Turbo DNA Digestion:

can digest DNA at standard incubation time (1-16 hours) as well.

Plasmid DNA

PCR product

Sterile water

Turbo reaction protocol:

+ 1 µl of Turbo Restriction Endonuclease

Incubate at 37°C for 10-15 min

20 ul of the reaction volume:

high quality purification of DNA sample. This enzyme

Reaction Buffer (x10) - 2 µl

- 1-2 μl (up to 1 μg) or

- up to 20 µl

- 5-10 µl (~0,2 µg)