

info@sibenzyme.com

www.sibenzyme.com

For more details

scan the code

CERTIFICATE OF ANALYSIS Description: Turbo EcoR V can be used for short time (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 double digestion.

Source: An E.coli strain that carries the cloned EcoR V gene from Escherichia coli. Supplied in:

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

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

1X SE-Buffer W (pH 8.5@ 25°C): 10 mM Tris-HCl. 100 mM NaCl, 10 mM MgCl2, 1 mM DTT

minutes.

Heat Inactivation:

Enzyme is not inactivated by incubation at 65° C for 20

37°C in a total reaction volume of 50 µl. Quality Control Assays Ligation: After 20-fold overdigestion with EcoR V. approximately 90% of the DNA fragments can be ligated with high-activity T4 DNA Ligase and recut.

Unit Definition: One unit is defined as the amount of

enzyme required to digest 1 μ g of λ DNA in 1 hour at

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.

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

10x SE-Buffer W. 10x SE-Buffer ROSE

Reagents Supplied with Enzyme:

Oligonucleotide Assay: No detectable degradation of a

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

Turbo reaction protocol:

Turbo DNA Digestion:

-Fast DNA analysis

-Double digestion

Enzyme Properties:

Applications:

20 µl of the reaction volume:

Plasmid DNA

PCR product

Sterile water

Reaction Buffer (x10) - 2 µl

Incubate at 37°C for 10-15 min

+ 1 ul of Turbo Restriction Endonuclease

-Fast preparation of vectors for cloning

1 µl of Turbo EcoR V cuts 1 µg of DNA in 1x SE-Buffer

the protocol below). Short time DNA digestion requires

W or universal 1x SE-Buffer ROSE in 10-15 min (see

high quality purification of DNA sample. This enzyme

- 5-10 ul (~0.2 µg)

- 1-2 μl (up to 1 μg) or

- up to 20 ul