

EcoR I GJAATTC -

Recognition Sequence: CTTAA↑G E058T

Lot: 84 25,000 units

Exp: 09/20 Store at -20C

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

EcoR I

scan the code

Restriction

Endonuclease

For more details

TURBO

CERTIFICATE OF ANALYSIS

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

10 mM Tris-HCl (pH 7.5), 200 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 200 µg/ml BSA, 50%

1x SE-Buffer EcoR I or 1x SE-Buffer ROSE.

Reagents Supplied with Enzyme: 10x SE-Buffer EcoR I, 10x SE-Buffer ROSE

reaction incubated for 1 hour.

enzyme required to digest 1 μ g of λ DNA in 1 hour at Ligation: After 40-fold overdigestion with EcoR I.

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

Enzyme Properties: 1 ul of Turbo EcoR I cuts 1 ug of DNA in 1x SE-Buffer EcoR Lor universal 1x SE-Buffer ROSE in 10-15 min 16-Hour Incubation: A 50 µl reaction containing 1 µg (see the protocol below). Short time DNA digestion of DNA and 20 units of enzyme incubated for 16 hours requires high quality purification of DNA sample. This

Turbo reaction protocol:

Turbo DNA Digestion:

-Fast preparation of vectors for cloning

Applications: -Fast DNA analysis

-Double digestion

Reaction Buffer (x10) - 2 ul Plasmid DNA

restriction endonuclease for 3 hours.

resulted in the same pattern of DNA bands as a

was observed after incubation with 20 units of

Oligonucleotide Assay: No detectable degradation of a

single-stranded and double-stranded oligonucleotide

Unit Definition: One unit is defined as the amount of

37°C in a total reaction volume of 50 µl.

Quality Control Assays

enzyme can digest DNA at standard incubation time (1-16 hours) as well. 20 ul of the reaction volume: - 1-2 μl (up to 1 μg) or PCR product - 5-10 µl (~0,2 µg) Sterile water - up to 20 µl + 1 µl of Turbo Restriction Endonuclease Incubate at 37°C for 10-15 min

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

Description: Turbo EcoR I can be used for short time

gene from Escherichia coli.

Supplied in:

glycerol.

Reaction Conditions:

Incubate at 37°C

Heat Inactivation:

minutes.

(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.

1X SE-Buffer EcoR I (pH 7.6@ 25°C): 100 mM Tris-

Enzyme is inactivated by incubation at 65° C for 20

HCl, 50 mM NaCl, 10 mM MgCl₂, 1 mM DTT