

Mlu I

ALCGCGT Recognition Sequence: TGCGC TA

Restriction

Endonuclease

E086T Lot: 21 5.000 units Exp: 07/20 Store at -20°C





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TURBO

CERTIFICATE OF ANALYSIS

Description: Turbo Mlul 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

Source: Micrococcus luteus

Supplied in: 10 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 200 µg/ml BSA, 50% glycerol.

1xSE-Buffer 0 or 1xSE-Buffer ROSE. Incubate at 37°C. 1 x SE-Buffer 0 (pH 7.6@ 25°):

50 mM Tris-HCl 100 mM NaCl 10 mM MaCl 1 mM DTT

Heat Inactivation:

double digestion.

Reaction Conditions:

Enzyme is inactivated by incubation at 65°C for

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

10 x SE-Buffer O, 10 x SE-Buffer ROSE

- 1-2 μl (up to 1 μg) or - 5-10 μl (~0,2 μg) PCR product Sterile water - up to 20 μl + 1 µl of Turbo Restriction Endonuclease Incubate at 37°C for 10-15 min. Blocked by CpG methylation.

1 hour at 37°C in a total reaction volume of 50 µl. Quality Control Assays Ligation: After 20-fold overdigestion with Mlu I. >90% of the DNA fragments can be ligated with

resulted in the same pattern of DNA bands as a

Oligonucleotide Assay: No detectable degradation of a

T4 DNA Ligase and recut.

reaction incubated for 1 hour.

enzyme required to digest 1 μg of λ DNA in

Unit Definition: One unit is defined as the amount of

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 40 units of enzyme incubated for 16 hours

Turbo reaction protocol:

20 µl of the reaction volume: Reaction Buffer (x10) - 2 µl Plasmid DNA

Turbo DNA Digestion:

-Fast preparation of vectors for cloning

1 µl of Turbo Mlul 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 high quality purification of DNA sample. This enzyme

can digest DNA at standard incubation time

-Fast DNA analysis

-Double digestion

Enzyme Properties:

(1-16 hours) as well.

Applications: