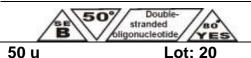
Restriction Endonuclease





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50 u 1000 u/ml

Store at -20°C

Recognition Sequence:

5'... YA↓TR ...3'

3'... RT^{AY} ...5'

Sourse: Flavobacterium aquatile B15

Fail cleaves 4 expected recognition sites as well as several other sites with a weaker activity. In the case of long incubation with Fail DNA can be digested to small oligos.

Supplied in:

10 mM Tris-HCl (pH 7.5); 100 mM KCl; 0,1 mM EDTA; 200 μg/ml BSA; 7 mM 2-mercaptoethanol; 50% glycerol.

Reaction Conditions:

1×SEBuffer **B**.

Incubate at 50°C.

Warranty period for the enzyme storage at-20°C is two years from the date of the last assay indicated on the enzyme vial.

1×SEBuffer B (pH 7.6 @ 25°C)

10 mM Tris-HCl 10 mM MgCl₂ 1 mM DTT

Unit Definition:

One unit is defined as the amount of enzyme required to cleave 1 pmol of the double-stranded oligonucleotide with the following structure

5'-CGAGTTCA^TAGCTGGGCCCAAC-3' 3'-GCTCAAGT^ATCGACCCGGGTTG-5'

in 1 hour at 50°C in a total reaction volume of 20 µl. http://science.sibenzyme.com/article8_article_ 51_1.phtml

Quality Control Assays

Ligation: After 3-fold overdigestion with Fai I, ~50% of pUC19 DNA fragments can be ligated with T4 DNA Ligase and recut.

Oligonucleotide Assay:

No detectable degradation of a singleand double-stranded oligonucleotide was observed after incubation with 1 unit of enzyme for 3 hours.

Enzyme Properties

Activity in SEBuffers:

 SEBuffer B
 100%

 SEBuffer G
 50-75%

 SEBuffer O
 10-25%

 SEBuffer W
 25-50%

 SEBuffer Y
 25-50%

 SEBuffer ROSE
 100%

Heat Inactivation:

Yes (80°C for 20 minutes)

Reagents Supplied with Enzyme:

10×SEBuffer B

CERTIFICATE OF ANALYSIS