

Smi I

Product Information

Cat

ET-1177RE

Recognition Sequence

ATTT↑AAAT

TAAA↓TTTA

Unit Definition

One unit of the enzyme is the amount required to hydrolyze 1 µg of T7 DNA (Sspl-digest) in 1 hour at 37°C in a total reaction volume of 50 µl.

Reaction Temperature

37°C

Form

Liquid

Storage Buffer

10 mM Tris-HCl (pH 7.5); 250 mM NaCl; 0.1 mM EDTA; 7 mM 2-mercaptoethanol; 100 µg/ml BSA; 50% glycerol.

Ligation

After 20-fold overdigestion with enzyme >95% of the DNA fragments can be ligated and recut. Ligation >95% in presence of 10% PEG.

Source

Streptococcus milleri S

Assayed on

T7 DNA (Sspl-digest)

Working buffer

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O (50 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl₂; 100 mM NaCl; 1 mM DTT.) + BSA

B	G	O	W	Y	Rose
25 - 50	25 - 50	100	75 - 100	25 - 50	10

Non-specific hydrolisis

No nonspecific activity was detected after incubation of 1 µg of T7 DNA with 40 u.a. of enzyme for 16 hours at 37°C.

Size

1000U; 5000U

Concentration, u.a./ml

20000

Inactivation

20min Under 65°C

Reagents Supplied

10 X SE-buffer O, BSA

Storage

-20°C

Notes

To obtain 100% activity, BSA should be added to the 1 x reaction mix to a final concentration of 100 µg/ml.

Do not use BSA for long incubation.