Creative Enzymes®
Molecular Tools

Sma I

Product Information

Cat
ET-1176RE
Recognition Sequence
CCC↑GGG GGG↓CCC
Unit Definition
One unit of the enzyme is the amount required to hydrolyze 1 μg of Lambda DNA (HindIII-digest) in 1 hour at 25°C in a total reaction volume of 50 μl.
Reaction Temperature
37°C
Form
Liquid
Storage Buffer
10 mM Tris-HCl (pH 7.5); 50 mM NaCl; 0.1 mM EDTA; 1 mM DTT; 200 μg/ml BSA; 50% glycerol.
Ligation
After 20-fold overdigestion with enzyme more than 90% of the DNA fragments can be ligated (by using of high concentration T4 DNA Ligase and 10% PEG) and recut.
Source
An E.coli strain that carries the cloned Sma I gene from Serratia marcescens
Assayed on
Lambda DNA (HindIII-digest)
Working buffer
Y (33 mM Tris-acetate (pH 7.9 at 25°C); 10 mM magnesium acetate; 66 mM potassium acetate; 1 mM DTT.)

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B	G	O	W	Y	Rose
0 - 10	0 - 10	0 - 10	0 - 10	100	50

Non-specific hydrolisis

No nonspecific activity was detected after incubation of 1 μg of Lambda DNA with 40 u.a. of enzyme for 16 hours at 25°C.

Size

2000U; 10000U

Concentration, u.a./ml

20000

Inactivation

20min Under 65°C

Reagents Supplied

10 X SE-buffer Y.

Storage

-20°C

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