

Restriction
Endonuclease



Erh I

Recognition
Sequence:

C↓CWWGG
GGWWT↑C

S

E061

1,000 units
20,000 u/ml

Lot:

Exp:

Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	10-25	25-50	50-75	75-100	10-25	100

37°C

65°C

2W

λ

BSA

For more details
scan the code



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

CERTIFICATE OF ANALYSIS

Source: *Erwinia rhapsodica*.

Supplied in:

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

Reaction Conditions:

1X SE-Buffer 2W, BSA (100 µg/ml). Incubate at 37°C.

1X SE-Buffer 2W (pH 8.5 @ 25°C):

20 mM Tris-HCl 200 mM NaCl
10 mM MgCl₂ 1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 65°C for 20
minutes.

Unit Definition: One unit is defined as the amount of
enzyme required to digest 1 µg of Lambda DNA in 1
hour at 37°C in a total reaction volume of 50 µl.
To obtain 100% activity, BSA should be added to the
1x reaction mix to a final concentration of 100 µg/ml.

Quality Control Assays

Ligation: After 20-fold overdigestion with Erh I, 95%
of the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of
DNA and 40 Units of enzyme incubated for 16 hours
resulted in the same pattern of DNA bands as a reaction
incubated for 1 hour.

No using BSA for long incubation.

High enzyme concentration may result in star activity.

Oligonucleotide Assay: No detectable degradation of a
single-stranded and double-stranded oligonucleotide
was observed after incubation with 20 units of restriction
endonuclease for 3 hours.

Enzyme Properties:

When using a buffer other than the optimal (Supplied)
SE-Buffer, it may be necessary to add more enzymes
to achieve complete digestion.

Reagents Supplied with Enzyme:

10X SE Buffer 2W, BSA (10 mg/ml).