



DseD I

Recognition Sequence: GACNNNNINNGTC CTGNNTNNNNCAG

S E241 500 units

10.000 u/ml

Lot: Exp:

Store at -20°C

SE-Buffers	В	G	0	W	Υ	ROSE	
%Activity	75-100	75-100	25-50	50-75	100	30	

7°C 80°C Y λ BSA

For more details scen the code



CERTIFICATE OF ANALYSIS

Source: Deinococcus species D2.

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 Y,BSA (100 μg/ml).Incubate at 37° C.

<u>1X SE-Buffer Y (pH 7.9 @ 25° C):</u>

33 mM Tris-AC 66 mM KAc 10 mM MgAc 1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 80°C for 20 minutes.

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

Quality Control Assays

<u>Ligation</u>:After 10-fold overdigestion with DseD I, \sim 90% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 20 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.

Do not use BSA for long incubation.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 10 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 Y, BSA (10 mg/ml).