			1
Restriction Endonuclease	Supplied in: 20 mM KH ₂ PO ₄ (pH 7.4);	Quality Control Assays	Enzyme Properties
Bari SibEnzyme SibEnzyme Ltd., Russia Ph: +7 383 333 4991	100 mM KCl; 0.1 mM EDTA; 200 μg/ml BSA, 7 mM 2-mercaptoethanol; 50% glycerol. Reaction Conditions : 1×SEBuffer 2K	Ligation: After 3-fold overdigestion with Bar I, ~90% of T7 DNA fragments can be ligated with T4 DNA Ligase and	Activity in SEBuffers: SEBuffer B 0% SEBuffer G 0-10% SEBuffer O 25-50%
E548 Fax :+7 383 333 6853 info@sibenzyme.com www.sibenzyme.com	Incubate at 37°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.	~95% of these can be recut. 16-Hour Incubation:	SEBuffer W 50-75% SEBuffer Y 10-25% SEBuffer ROSE 40%
SE 37° TT YES	1×SEBuffer 2K (pH 7.6 @ 25°C) 10 mM Tris-HCl 200 mM KCl 10 mM MgCl2 1 mM DTT	A 50 µl reaction containing 1µg of T7 DNA and 4 units of enzyme incubated for 16 hours resulted in the same pattern of DNA	When using a buffer other than the optimal (suppied) SEBuffer, it may be necessary to add more enzyme to achieve
500 u Lot: 7		bands as a reaction incubated for 1 hour.	complete digestion.
2000 u/ml Store at -20°C	Unit Definition: One unit is defined as the		
Recognition Sequence: 5' ↓(N) ₇ GAAG(N) ₆ TAC(N) ₁₂ ↓3' 3' ↑(N) ₁₂ CTTC(N) ₆ ATG(N) ₇ ↑ 5' Sourse: <i>Bacillus sphaericus</i>	amount of enzyme required to digest 1 μ g of T7 DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.	Oligonucleotide Assay: No detectable degradation of a single- and double-stranded oligonucleotide was observed after incubation with 2 units of enzyme for 3 hours.	Heat Inactivation: Yes (65°C for 20 minutes) Reagents Supplied with Enzyme: 10×SEBuffer 2K CERTIFICATE OF ANALYSIS