

Ver. EN20230725

Bsal GMP-grade (20 U/ μ L)

Product description

This product is a type IIS restriction endonuclease derived from the recombinant protein encoded by the Bsal gene in Bacillus sphaericus expressed by E. coli. Its recognition sequence is 5'-GGTCTCN1/N5-3'. Use to digest plasmids to prepare poly(A/T/G/C)-terminated linearized DNA fragments to obtain specific cohesive ends. This product is produced in accordance with GMP process requirements and provided in a liquid form.

Specifications

Expression Host	Recombinant <i>E. coli</i> with Basl gene		
Reaction Temperature	37°C		
Storage Buffer	10 mM Tris-HCl, 0.2 M NaCl, 0.1 mM EDTA, 1mM DTT, 50% Glycerol		
Unit Definition	1 unit: The amount of enzyme required to digest 1 μg of substrate DNA within 1 h at $37^{\circ}C$ in a 50 μL system.		
Application	1. Digest the plasmid to prepare a linearized DNA fragment at the end of Poly (A/T/C/G);		
	2. Digestion of DNA to obtain specific sticky ends;		
	3. Linearize plasmid template before in-vitro transcription.		

Components

Components No.	Name	10661ES03	10661ES10 (10 KU)	10661ES60 (100 KU)
10441	Paul CMD-grade (20 II/u.l.)	,		,
10661	Bsal GMP-grade (20 U/μL)	50 μL	500 μL	5 mL

Storage

This product should be stored at -25 $^{\sim}$ -15 $^{\circ}$ C for two years.

Instructions

Experimental methods

50 μ L reaction system

This step is suitable for linearization of 1 $\,\mu\,g$ DNA (\geqslant 100 nt) and can be scaled up according to experimental needs.

1. Add the following components in sequence:

Plasmid DNA 1-2 μ g 10×Digestion Buffer 4 5.0 μ L	
10×Digestion Buffer 4 5.0 μL	
BsaI (20 U/μL) 1.0 μL	

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RNase-free ddH_2O Up to 50 μ L

[Note] 10× Digestion Buffer 4(Cat#10668ES): 500 mM Potassium Acetate, 200 mM Tris-acetate, 100 mM Magnesium Acetate, 1 mg/ml OsrHSA, pH7 9@25°C

- 2. Incubate at 37° C 1 h;
- 3. DNA linearization is complete, and subsequent experiments can be performed.

Notes

- 1. Heat inactivation condition: incubate at 80° C for 20min.
- 2. Please operate with lab coats and disposable gloves, for your safety.

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