Lambda DNA BseAl digest, 0.7 % agarose



5'...T ***** CCGGA...3' 3'...AGGCC **↑** T...5'

Content:

Ref No.	250107S	color
BseAl 10 U/μL	650 units	blue
10x buffer U _{BseAl} *	1x 1 mL	red
10x buffer K	1x 1 mL	yellow
Datasheet		

We recommend the use of buffer K as universal buffer (BSA included).

Storage: -20 °C

Concentration: 10 U/µL

Source: BseAl is a restriction enzyme purified from *Bacillus stearothermophilus*.

Enzyme Properties:

1x buffer U_{BseAI} composition: 10 mM Tris-HCl (pH 8.0 at 25 °C), 100 mM NaCl, 5 mM MgCl₂,

1 mM Dithiothreitol, 0.02 % Triton X-100.

General reaction mixture: 10 U BseAl 1 μ L

Incubate for 15 min at 55 °C

Heat inactivation: No.

Methylation Sensitivity: dam methylation: n.a.

dcm methylation: n.a. CpG methylation: n.a.

Storage buffer: 10 mM Tris-HCI (pH 7.4), 50 mM KCI, 0.1 mM EDTA, 1 mM Dithiothreitol,

500 μ g/ml BSA and 50 % glycerol. Store at -20 °C.

Absence of contaminants: 400 units of BseAl do not produce any unspecific cleavage products after

16 hrs incubation with 1 µg of Lambda DNA at 55 °C. After 100-fold overdigestion with BseAl, greater than 98 % of the DNA fragments can be

ligated and recut with this enzyme.

Unit definition:One unit is defined as the amount of enzyme required to produce a complete

digest of 1 μg Lambda DNA in 60 minutes in a total reaction volume of 0.05 mL

under assay conditions.

Percent Activity in BIORON Buffers:

L* M* H* SH* A* K

10 50 75-100 50-75 10 100

*we recommend the addition of BSA to a final concentration of 100 µg/mL.