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Certificate of Analysis

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BamH I

Catalog No: 2050

Lot No: 2404006

Package Size: See Product Label

Concentration: 10 units/ μ l

Source: *Bacillus amyloliquefaciens H*

Storage Conditions: Store at -20°C

Recognition/Cut Site

5'-G↓GATCC-3'
3'-CCTAG↑G-5'

Unit Definition

One unit is the amount of enzyme required to completely digest 1 μ g of Lambda DNA in 1 hour at 37°C.

Heat Inactivation

No

Reaction Temperature

37°C

Reaction Buffer

50 mM Tris-HCl (pH 7.5 @ 37°C)
100 mM NaCl
10 mM MgCl₂
1 mM dithiothreitol (DTT)
100 μ g/ml bovine serum albumin*
*supplied separately

Assay Conditions

50 mM Tris-HCl (pH 7.5 @ 37°C)
100 mM NaCl
10 mM MgCl₂
1 mM dithiothreitol (DTT)
100 μ g/ml bovine serum albumin
1 μ g Lambda DNA
Incubation time is 1 hour at 37°C
Reaction volume is 50 μ l

Storage Buffer

50 mM Tris-HCl (pH 7.5)
300 mM KCl
0.5 mM EGTA
1 mM dithiothreitol (DTT)
500 μ g/ml bovine serum albumin
0.1% Triton X-100™
50% glycerol

Quality Control

Non-specific Endonuclease: 10, 20, and 30 units of BamH I were incubated with Lambda DNA for 5 hours at 37°C and compared to a standard 4 Unit, 1 hour assay.

3'-Exonuclease: 2, 5, 10, 15, and 20 units of BamH I were incubated with [³H] labeled 3'-ends of Lambda/Taq I DNA fragments for 1 hour at 37°C.

5'-Exonuclease/5'-Phosphatase: 2, 5, 10, 15, and 20 units of BamH I were incubated with [γ -³²P] labeled 5' - ends of Lambda/Hae III DNA fragments for 1 hour at 37°C.

Nicking: 10, 20, and 30 units of BamH I were incubated with Φ X-174 DNA for 5 hours at 37°C.

Ligation/Recut: 2 units of BamH I per μ g of Lambda DNA were incubated for 1 hour at 37°C. Resulting fragments were ligated with T4 DNA Ligase and recut with BamH I.

For more information or to re-order, please visit www.chimerx.com