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Certificate of Analysis

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Acc I

Catalog No: 2000

Lot No: 2309003

Package Size: See Product Label

Concentration: 10 units/ μ l

Source: *Acinetobacter calcoaceticus*

Storage Conditions: Store at -20°C

Recognition/Cut Site

5'-GT↓MKAC-3'
3'-CAKM↑TG-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

10 minutes at 80°C

Reaction Temperature

37°C

Reaction Buffer

20 mM Tris-OAc (pH 7.5 at 37°C)

50 mM KOAc

10 mM MgOAc

1 mM dithiothreitol (DTT)

100 μ g/ml bovine serum albumin*

*supplied separately

Assay Conditions

20 mM Tris-OAc (pH 7.5 at 37°C)

50 mM KOAc

10 mM MgOAc

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)

0.1 mM EDTA

10 mM β -mercaptoethanol

500 μ g/ml bovine serum albumin

0.1% Triton X-100™

50% (v/v) glycerol

Quality Control

Non-Specific Endonuclease: 10, 20, and 30 units of Acc I were incubated with Lambda DNA for 5 hours at 37°C and compared to a standard 4 unit, 1 hour assay. A second assay was performed under the same conditions using pBR322 as the DNA.

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

Ligation/Recut: 2 units of Acc I per μ g of SV40 DNA were incubated for 1 hour at 37°C. Resulting fragments were ligated with T4 DNA Ligase and recut with Acc I.

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