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Certificate of Analysis

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Apa I

Catalog No: 2015

Lot No: 2709015

Package Size: See Product Label

Concentration: 10 units/ μ l

Source: *Acetobacter pasteurianus*

Storage Conditions: Store at -20°C

Recognition/Cut Site

5'-GGGCC↓C-3'

3'-C↑CCGGG-5'

Unit Definition

One unit is the amount of enzyme required to completely digest 1 μ g of Ad-2 DNA in 1 hour at 30°C.

Heat Inactivation

10 minutes at 65°C

Reaction Temperature

30°C

Reaction Buffer

20 mM Tris-HCl (pH 7.5 @ 37°C)

50 mM potassium acetate

10 mM magnesium acetate

1 mM dithiothreitol (DTT)

100 μ g/ml bovine serum albumin*

*supplied separately

Assay Conditions

20 mM Tris-HCl (pH 7.5 @ 37°C)

50 mM potassium acetate

10 mM magnesium acetate

1 mM dithiothreitol (DTT)

100 μ g/ml bovine serum albumin

1 μ g Ad-2 DNA

Incubation time is 1 hour at 30°C

Reaction volume is 50 μ l

Storage Buffer

50 mM Tris-HCl (pH 7.5)

50 mM KCl

0.1 mM EDTA

10 mM β -mercaptoethanol

200 μ g/ml bovine serum albumin

0.1% Triton X-100™

50% glycerol

Quality Control

Non-specific Endonuclease: 20, 35, and 50 units of Apa I were incubated with Ad-2 DNA for 5 hours at 30°C and compared to a standard 4 Unit, 1 hour assay. A second assay was performed under the same conditions using lambda as the DNA.

3'-Exonuclease: 5, 10, 15, 20 and 30 units of Apa I were incubated with [³H] labeled 3'-ends of Lambda/Taq I DNA fragments for 1 hour at 30°C.

5'-Exonuclease/5'-Phosphatase: 5, 10, 15, 20 and 30 units of Apa I were incubated with [γ - ³²P] labeled 5' - ends of Lambda/Hae III DNA fragments for 1 hour at 30°C.

Nicking: 20, 35, and 50 units of Apa I were incubated with pBR322 DNA for 5 hours.

Ligation/Recut: 4 units of Apa I per μ g of Ad-2 DNA were incubated for 1 hour at 30°C. Resulting fragments were ligated with T4 DNA Ligase and recut with Apa I.

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