



6143 North 60th Street
Milwaukee, WI 53218
www.chimerx.com

Certificate of Analysis

Telephone: (414) 535-9506
Toll Free: (800) 626-7833
Fax: (414) 535-9508
Web Support: chimerx.com/support
Email: info@chimerx.com

Acv I

Catalog No: 2005

Lot No: 2404039

Package Size: See Product Label

Concentration: 10 units/ μ l

Source: *Aeromonas caviae*

Storage Conditions: Store at -20°C

Recognition/Cut Site

5'-CAC↓GTG-3'
3'-GTG↑CAC-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 37°C.

Heat Inactivation

10 minutes at 80°C

Reaction Temperature

37°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 37°C
Reaction volume is 50 μ l

Storage Buffer

10 mM Tris-HCl (pH 7.5)
50 mM KCl
0.1 mM EDTA
10 mM MgCl₂
1 mM dithiothreitol (DTT)
0.2 mg/ml bovine serum albumin
50% glycerol

Quality Control

Non-specific Endonuclease: 10 units of Acv I were incubated with Ad-2 DNA for 16 hours at 37°C and compared to a standard 4 unit, 1 hour assay.

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

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

Nicking: 5, 10, and 20 units of Acv I were incubated with pBR322 DNA for 5 hours at 37°C.