



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

Ava I

Catalog No: 2020

Lot No: 2311008

Package Size: See Product Label

Concentration: 10 units/ μ l

Source: *Anabaena variabilis*

Storage Conditions: Store at -20°C

Recognition/Cut Site

5'-C↓PyCGPuG-3'

3'-GPuGCPy↑C-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 in a total reaction volume of 50 μ l.

Heat Inactivation

10 minutes at 80°C

Reaction Temperature

37°C

Reaction Conditions

10 mM Tris-HCl (pH 7.5 at 37°C)

50 mM NaCl

10 mM MgCl₂

1 mM dithiothreitol (DTT)

100 μ g/ml bovine serum albumin*

*supplied separately

Assay Conditions

10 mM Tris-HCl (pH 7.5 at 37°C)

50 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)

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 Ava 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, 20 units of Ava I were incubated with [³H] labeled 3'-ends of Lambda/Taq I fragments for 1 hour at 37°C.

5'-Exonuclease/5'-Phosphatase: 2, 5, 10, 15, 20 units of Ava 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 Ava I were incubated with SV40 DNA for 5 hours at 37°C.

Ligation/Recut: 2 units of Ava 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 Ava I.

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