



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

Alu I

Catalog No: 2010

Lot No: 2410002

Package Size: See Product Label

Concentration: 10 units/ μ l

Source: *Arthrobacter luteus*

Storage Conditions: Store at -20°C

Recognition/Cut Site

5'-AG↓CT-3'

3'-TC↑GA-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 65°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

10 mM Tris-HCl (pH 7.4)

50 mM KCl

0.1 mM EDTA

1 mM β -mercaptoethanol

0.1% Triton X-100™

500 μ g/ml bovine serum albumin

50% (v/v) glycerol

Quality Control

Non-specific Endonuclease: Incubation of 20, 35, and 50 units of Alu I were incubated with lambda DNA for 5 hours at 37°C and compared to a standard 4 unit, 1 hour assay.

3'-Exonuclease: 5, 10, 15, 20, and 30 units of Alu 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, 15, 20, and 30 units of Alu I were incubated with [γ -³²P] labeled 5'-ends of Lambda/Hae III fragments for 1 hour at 37°C.

Ligation/recut: 4 units of Alu I with per μ g of Lambda DNA were incubated for 1 hour at 37°C. Resulting fragments were ligated with T4 DNA Ligase recut with Alu I.

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