



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

Exonuclease III, E. coli

Catalog No: 1140

Lot No: 2209015

Package Size: See Product Label

Concentration: 50 units/ μ l

Protein (Bradford): 0.429 mg/ml

Specific Activity: 116,429 units/mg

Storage Conditions: Store at -20°C

Unit Definition

One unit is the amount of enzyme required to produce 1 nmol acid-soluble radioactivity in 30 minutes at 37°C .

Storage Buffer

25 mM Tris-HCl (pH 8.0)

0.05 mM dithiothreitol

50% (v/v) glycerol

Assay Conditions

50 mM Tris-HCl (pH 7.6)

10 mM MgCl_2

1 mM dithiothreitol

0.15 mM duplex [^{32}P] Lambda DNA

Incubation at 37°C for 30 minutes

Reaction volume is 20 μ l

Quality Control

Endonuclease: 50, 100, and 200 units of Exonuclease III were incubated with 1 μ g of pBR322 DNA for 1 hour at 37°C resulted in a $\leq 10\%$ conversion of RFI to RF II DNA in a total reaction volume of 50 μ l.

Purity: Approximately $\geq 90\%$ pure, as judged by SDS-polyacrylamide gel electrophoresis.