NEW ENGLAND BioLabs® Inc.

240 County Road
Ipswich, MA 01938-2723

Tel 978-927-5054
Fax 978-921-1350

www.neb.com
info@neb.com

# New England Biolabs
# Product Specification

| | |
|---|---|
| *Product Name:* | *λ DNA-Mono Cut Mix* |
| *Catalog #:* | *N3019S/L* |
| *Concentration:* | *500 µg/ml* |
| *Unit Definition:* | *N/A* |
| *Shelf Life:* | *24 months* |
| *Storage Temp:* | *-20°C* |
| *Storage Conditions:* | *10 mM Tris-HCl (pH 8.0), 1 mM EDTA* |
| *Specification Version:* | *PS-N3019S/L v1.0* |
| *Effective Date:* | *24 Jun 2014* |

| **Assay Name/Specification** (minimum release criteria) |
|---|
| **A260/A280 Assay** - The ratio of UV absorption of λ DNA-Mono Cut Mix at 260 and 280 nm is between 1.8 and 2.0. |
| **DNA Concentration (A260)** - The concentration of λ DNA-Mono Cut Mix is between 500 and 550 µg/ml as determined by UV absorption at 260 nm. |
| **Electrophoretic Pattern (PFGE Marker)** - The banding pattern of λ DNA-Mono Cut Mix on a 1% CHEF PFG gel shows discrete, clearly identifiable bands at each band of the marker, as determined by gel electrophoresis using Ethidium Bromide. |
| **Non-Specific DNase Activity (DNA, 16 hour)** - A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of λ DNA-Mono Cut Mix incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. |

Date 24 Jun 2014

Derek Robinson
Director of Quality Control

ISO 9001 Registered Quality Management
ISO 14001 Registered Environmental Management
ISO 13485 Registered Medical Devices