

## New England Biolabs Certificate of Analysis

**Product Name:**  $\lambda$  DNA-Mono Cut Mix  
**Catalog #:** N3019S/L  
**Concentration:** 500  $\mu\text{g/ml}$   
**Unit Definition:** N/A  
**Lot #:** 0191511  
**Assay Date:** 11/2015  
**Expiration Date:** 11/2017  
**Storage Temp:** -20°C  
**Storage Buffer:** 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
**Specification Version:** PS-N3019S/L v1.0  
**Effective Date:** 25 Jun 2014

Assay Name/Specification (minimum release criteria)	Lot #0191511
<b>A260/A280 Assay</b> - The ratio of UV absorption of $\lambda$ DNA-Mono Cut Mix at 260 and 280 nm is between 1.8 and 2.0.	<b>Pass</b>
<b>DNA Concentration (A260)</b> - The concentration of $\lambda$ DNA-Mono Cut Mix is between 500 and 550 $\mu\text{g/ml}$ as determined by UV absorption at 260 nm.	<b>Pass</b>
<b>Electrophoretic Pattern (PFGE Marker)</b> - The banding pattern of $\lambda$ 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.	<b>Pass</b>
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> - A 50 $\mu\text{l}$ reaction in 1X NEBuffer 2 containing 2.5 $\mu\text{g}$ of $\lambda$ 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.	<b>Pass</b>



Authorized by  
Derek Robinson  
25 Jun 2014



Inspected by  
Vanessa Mathieu-Sheltry  
03 Dec 2015

