

## 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 #:* 0191612  
*Assay Date:* 12/2016  
*Expiration Date:* 12/2018  
*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:* 25 Jun 2014

Assay Name/Specification (minimum release criteria)	Lot #0191612
<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  
10 Jan 2017

