

## New England Biolabs Certificate of Analysis

**Product Name:** *Lambda DNA-Mono Cut Mix*  
**Catalog Number:** *N3019S*  
**Concentration:** *500 µg/ml*  
**Unit Definition:** *N/A*  
**Lot Number:** *10023487*  
**Expiration Date:** *10/2020*  
**Storage Temperature:** *-20°C*  
**Storage Conditions:** *10 mM Tris-HCl (pH 8.0), 1 mM EDTA*  
**Specification Version:** *PS-N3019S/L v1.0*

Lambda DNA-Mono Cut Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3019SVIAL	Lambda DNA-Mono Cut Mix	10023485	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10014371	Pass

Assay Name/Specification	Lot # 10023487
<b>A260/A280 Assay</b> The ratio of UV absorption of λ DNA-Mono Cut Mix at 260 and 280 nm is between 1.8 and 2.0.	Pass
<b>DNA Concentration (A260)</b> The concentration of λ DNA-Mono Cut Mix is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.	Pass
<b>Electrophoretic Pattern (PFGE Marker)</b> 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.	Pass
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> 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.	Pass

This product has been tested and shown to be in compliance with all specifications.



Tony Spear-Alfonso  
Production Scientist  
08 Aug 2018



Michael Tonello  
Packaging Quality Control Inspector  
09 Oct 2018