

## New England Biolabs Certificate of Analysis

**Product Name:** *Lambda DNA*  
**Catalog Number:** *N3011S*  
**Concentration:** *500 µg/ml*  
**Unit Definition:** *N/A*  
**Packaging Lot Number:** *10221504*  
**Expiration Date:** *12/2025*  
**Storage Temperature:** *-20°C*  
**Storage Conditions:** *10 mM Tris-HCl (pH 8.0), 1 mM EDTA*  
**Specification Version:** *PS-N3011S/L v2.0*

| Lambda DNA Component List |                       |            |                      |
|---------------------------|-----------------------|------------|----------------------|
| NEB Part Number           | Component Description | Lot Number | Individual QC Result |
| N3011SVIAL                | Lambda DNA            | 10217791   | Pass                 |

| Assay Name/Specification                                                                                                                                                                                                                                             | Lot # 10221504 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>A260/A280 Assay</b><br>The ratio of UV absorption of Lambda DNA at 260 and 280 nm is between 1.8 and 2.0.                                                                                                                                                         | Pass           |
| <b>DNA Concentration (A260)</b><br>The concentration of Lambda DNA is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.                                                                                                                            | Pass           |
| <b>Electrophoretic Pattern (Linear DNA)</b><br>The banding pattern of Lambda DNA on a 1.2% agarose gel is evaluated against a control lot for sharpness and relative intensity as determined by gel electrophoresis using Ethidium Bromide.                          | Pass           |
| <b>Non-Specific DNase Activity (DNA, 16 hour)</b><br>A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of Lambda DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | Pass           |
| <b>Restriction Digest (Correct Pattern)</b><br>A 50 µl reaction in NEBuffer 2.1 containing 2.5 µg of Lambda DNA and 20 units of HindIII incubated for 1 hour at 37°C produces the expected pattern of DNA fragments as determined by agarose gel electrophoresis.    | Pass           |

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

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01 Dec 2023



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18 Dec 2023