**Product Name:** 1 kb Plus DNA Ladder  
**Catalog Number:** N3200L  
**Concentration:** 1,000 µg/ml  
**Packaging Lot Number:** 10060555  
**Expiration Date:** 09/2021  
**Storage Temperature:** -20°C  
**Specification Version:** PS-N3200S/L v2.0

### 1 kb Plus DNA Ladder Component List

<table>
<thead>
<tr>
<th>NEB Part Number</th>
<th>Component Description</th>
<th>Lot Number</th>
<th>Individual QC Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3200LVIAL</td>
<td>1 kb Plus DNA Ladder</td>
<td>N3200LVIAL</td>
<td>Pass</td>
</tr>
<tr>
<td>B7025SVIAL</td>
<td>Gel Loading Dye, Purple (6X), no SDS</td>
<td>B7025SVIAL</td>
<td>Pass</td>
</tr>
</tbody>
</table>

### Assay Name/Specification

**Electrophoretic Pattern (Marker)**  
The banding pattern of 1 kb Plus DNA Ladder on a 1.2% agarose gel shows discrete, clearly identifiable bands at each band of the marker, when stained with Ethidium Bromide at a concentration of 0.5 µg/ml.

**Non-Specific DNase Activity (DNA, 16 hour)**  
A 50 µl reaction in 1X NEBuffer 2 containing 5 µg of 1 kb Plus DNA Ladder incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

**A260/A280 Assay**  
The ratio of UV absorption of 1 kb Plus DNA Ladder at 260 and 280 nm is between 1.8 and 2.0.

**DNA Concentration (A260)**  
The concentration of 1 kb Plus DNA Ladder is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.

This product has been tested and shown to be in compliance with all specifications.
Vanessa Mathieu-Sheltry  
Production Scientist  
06 Sep 2019

Michael Tonello  
Packaging Quality Control Inspector  
16 Dec 2019