Product Name: 100 bp DNA Ladder  
Catalog #: N3231S/L  
Concentration: 500 µg/ml  
Unit Definition: N/A  
Lot #: 1051409  
Assay Date: 09/2014  
Expiration Date: 09/2016  
Storage Temp: -20 °C  
Storage Conditions: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
Specification Version: PS-N3231S/L v1.0  
Effective Date: 12 Sep 2014

<table>
<thead>
<tr>
<th>Assay Name/Specification (minimum release criteria)</th>
<th>Lot #1051409</th>
</tr>
</thead>
<tbody>
<tr>
<td>A260/A280 Assay - The ratio of UV absorption of 100 bp DNA Ladder at 260 and 280 nm is between 1.8 and 2.0.</td>
<td>Pass</td>
</tr>
<tr>
<td>DNA Concentration (A260) - The concentration of 100 bp DNA Ladder is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.</td>
<td>Pass</td>
</tr>
<tr>
<td>Electrophoretic Pattern (Marker) - The banding pattern of 100 bp 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.</td>
<td>Pass</td>
</tr>
<tr>
<td>Non-Specific DNase Activity (DNA, 16 hour) - A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of 100 bp 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.</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Authorized by
Derek Robinson  
12 Sep 2014

Inspected by
Vanessa Mathieu-Sheltry  
24 Sep 2014