

## New England Biolabs Certificate of Analysis

**Product Name:** 50 bp DNA Ladder  
**Catalog Number:** N3236S  
**Concentration:** 1,000 µg/ml  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10059985  
**Expiration Date:** 11/2021  
**Storage Temperature:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
**Specification Version:** PS-N3236S/L v1.0

50 bp DNA Ladder Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3236SVIAL	50 bp DNA Ladder	10059986	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10055731	Pass

Assay Name/Specification	Lot # 10059985
<b>A260/A280 Assay</b> The ratio of UV absorption of 50 bp DNA Ladder at 260 and 280 nm is between 1.8 and 2.0.	<b>Pass</b>
<b>DNA Concentration (A260)</b> The concentration of 50 bp DNA Ladder is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	<b>Pass</b>
<b>Electrophoretic Pattern (Marker)</b> The banding pattern of 50 bp DNA Ladder on a 3% 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.	<b>Pass</b>
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> A 50 µl reaction in 1X NEBuffer 2 containing 5 µg of 50 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.	<b>Pass</b>

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



Vanessa Mathieu-Sheltry  
Production Scientist  
20 Nov 2019



Michael Tonello  
Packaging Quality Control Inspector  
17 Jan 2020