

## New England Biolabs Certificate of Analysis

**Product Name:** Nuclease BAL-31  
**Catalog Number:** M0213S  
**Concentration:** 1,000 U/ml  
**Unit Definition:** One unit is defined as the amount of enzyme required to remove 200 base pairs from each end of linearized double-stranded PhiX174 DNA (40 µg/ml) in a total reaction volume of 50 µl in 10 minutes at 30°C in 1X Nuclease BAL-31 Reaction Buffer.  
**Lot Number:** 10049151  
**Expiration Date:** 07/2021  
**Storage Temperature:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl, 50 mM NaCl, 0.25 mM EDTA, 1.5 mM CaCl<sub>2</sub>, 1.5 mM MgCl<sub>2</sub>, 50 % Glycerol, 200 µg/ml BSA, (pH 8.0 @ 25°C)  
**Specification Version:** PS-M0213S/L v1.0

Nuclease BAL-31 Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0213SVIAL	Nuclease BAL-31	10049152	Pass
B0213SVIAL	Nuclease BAL-31 Reaction Buffer	10049207	Pass

Assay Name/Specification	Lot # 10049151
<b>Double Stranded DNase Activity (HaeIII Digested DNA)</b> A 50 µl reaction in Nuclease BAL-31 Reaction Buffer containing 25 µg of HaeIII digested PhiX174 DNA and 30 units of Nuclease BAL-31 is incubated for 5 minutes at 30°C. The DNA is then ligated with T4 DNA Ligase resulting in approximately 75% ligation of the DNA fragments.	Pass

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

*John D. Greci*

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John Greci  
Production Scientist  
18 Jul 2019

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
30 Jul 2019