

## 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.  
**Packaging Lot Number:** 10109043  
**Expiration Date:** 06/2023  
**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	10109044	Pass
B0213SVIAL	Nuclease BAL-31 Reaction Buffer	10113706	Pass

Assay Name/Specification	Lot # 10109043
<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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*John D. Greci*

---

John Greci  
Production Scientist  
13 Jul 2021

*Michael Tonello*

---

Michael Tonello  
Packaging Quality Control Inspector  
13 Jul 2021