

New England Biolabs Product Specification

<i>Product Name:</i>	<i>Nuclease BAL-31</i>
<i>Catalog #:</i>	<i>M0213S/L</i>
<i>Concentration:</i>	<i>1,000 units/ml</i>
<i>Unit Definition:</i>	<i>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.</i>
<i>Shelf Life:</i>	<i>24 months</i>
<i>Storage Temp:</i>	<i>-20°C</i>
<i>Storage Conditions:</i>	<i>10 mM Tris-HCl, 50 mM NaCl, 0.25 mM EDTA, 1.5 mM CaCl₂, 1.5 mM MgCl₂, 50 % Glycerol, 200 µg/ml BSA, (pH 8.0 @ 25°C)</i>
<i>Specification Version:</i>	<i>PS-M0213S/L v1.0</i>
<i>Effective Date:</i>	<i>22 Jan 2019</i>

Assay Name/Specification (minimum release criteria)

Double Stranded DNase Activity (HaeIII Digested DNA) - 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.
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Date 22 Jan 2019

Derek Robinson
Director of Quality Control

