

## New England Biolabs Certificate of Analysis

**Product Name:** Nucleoside Digestion Mix  
**Catalog Number:** M0649S  
**Packaging Lot Number:** 10149633  
**Expiration Date:** 04/2024  
**Storage Temperature:** -20°C  
**Storage Conditions:** 20 mM Tris-HCl, 50 mM NaCl, 1 mM MgCl<sub>2</sub>, 2 mM CaCl<sub>2</sub>, 2 mM ZnCl<sub>2</sub>, 0.6% Glycerol, (pH 7.5 @ 25°C)  
**Specification Version:** PS-M0649S v1.0

Nucleoside Digestion Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0649SVIAL	Nucleoside Digestion Mix	10144167	Pass
B0649SVIAL	10X Nucleoside Digestion Mix Buffer	10148878	Pass

Assay Name/Specification	Lot # 10149633
<b>Functional Testing (Nucleoside Digestion) (DNA Digestion)</b> A 20 µl reaction in 1X Nucleoside Digestion Mix Reaction Buffer containing 1 µl of Nucleoside Digestion Mix incubated for 1 hour at 37°C results in >99% complete digestion of at least 4 µg of Lambda DNA as determined by liquid chromatography analysis.	Pass
<b>Functional Testing (Nucleoside Digestion) (RNA Digestion)</b> A 20 µl reaction in 1X Nucleoside Digestion Mix Reaction Buffer containing 1 µl of Nucleoside Digestion Mix incubated for 1 hour at 37°C results in >99% complete digestion of at least 4 µg of a 1.8 kb in vitro transcription product as determined by liquid chromatography analysis.	Pass
<b>Functional Testing (Nucleoside Digestion) (Phosphatase Activity)</b> A 20 µl reaction in 1X Nucleoside Digestion Mix Reaction Buffer containing 1 µl of Nucleoside Digestion Mix incubated for 1 hour at 37°C results in >99% complete dephosphorylation of at least 4 µg of Lambda DNA as determined by liquid chromatography analysis.	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.

*Beth M. Paschal*

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18 Apr 2022

*Erin Varney*

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18 Apr 2022