

## New England Biolabs Certificate of Analysis

**Product Name:** Nucleoside Digestion Mix  
**Catalog Number:** M0649S  
**Packaging Lot Number:** 10228135  
**Expiration Date:** 10/2025  
**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            | 10206276   | Pass                 |
| B0649SVIAL                              | 10X Nucleoside Digestion Mix Buffer | 10213830   | Pass                 |

| Assay Name/Specification   | Lot # 10228135 |
|--|----------------|
| <b>Functional Testing (Nucleoside Digestion) (DNA Digestion)</b><br>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) (Phosphatase Activity)</b><br>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           |
| <b>Functional Testing (Nucleoside Digestion) (RNA Digestion)</b><br>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           |

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

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*Beth M. Paschal*

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Beth Paschal  
Production Scientist  
19 Oct 2023

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
03 Apr 2024