

New England Biolabs Product Specification

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| <i>Product Name:</i> | <i>RNase 4 Digestion and 3' End Repair Mix</i> |
| <i>Catalog #:</i> | <i>M1288S/L</i> |
| <i>Concentration:</i> | <i>1 reaction/μl</i> |
| <i>Shelf Life:</i> | <i>24 months</i> |
| <i>Storage Temp:</i> | <i>-20°C</i> |
| <i>Composition (1X):</i> | <i>10 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 μg/ml rAlbumin, 0.1 μM ATP, T4 Polynucleotide Kinase, RNase 4 (pH 7.4 @ 25°C)</i> |
| <i>Specification Version:</i> | <i>PS-M1288S/L v1.0</i> |
| <i>Effective Date:</i> | <i>16 Sep 2024</i> |

Assay Name/Specification (minimum release criteria)

* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in RNase 4 Digestion and 3' End Repair Mix and meet the designated specifications.

Functional Testing (RNA Digestion and 3' End Repair) - A 20 μ l reaction in NEBuffer[™] r1.1 containing 200 pmol of RNA substrate with a single U/A cut site and 1 μ l of RNase 4 Digestion and 3' End Repair Mix incubated at 37°C for 60 minutes results in >85% cleavage of the substrate and >85% 3' end repair activity as determined by capillary electrophoresis. End repair activity is assessed by relative measurement of conversion from 3'-phosphorylated to 3'-OH RNA oligonucleotide products.

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Date 16 Sep 2024

Lauren Brown
Quality Approver

