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New England Biolabs Certificate of Analysis

Product Name: ShortCut RNase III

Catalog Number: M0245L
Concentration: 2,000 U/ml

Unit Definition: One unit is the amount of enzyme required to digest 1 µg of dsRNA to

siRNA in 20 minutes at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10098433
Expiration Date: 02/2023
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 500 mM NaCl, 1 mM DTT, 0.5 mM EDTA, 50% Glycerol,

(pH 8.0 @ 25°C)

Specification Version: PS-M0245S/L v1.0

| ShortCut RNase III Component List | | | |
|-----------------------------------|------------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| M0245LVIAL | ShortCut® RNase III | 10098435 | Pass |
| B1564SVIAL | Glycogen RNase-free | 10100371 | Pass |
| B0786AVIAL | MnCl ₂ | 10100370 | Pass |
| B0255AVIAL | 10X EDTA | 10100373 | Pass |
| B0245SVIAL | ShortCut Reaction Buffer | 10100372 | Pass |

| Assay Name/Specification | Lot # 10098433 |
|---|----------------|
| Exonuclease Activity (Radioactivity Release) A 50 μl reaction in ShortCut® Reaction Buffer containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 10 units of ShortCut® RNase III incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in ShortCut® Reaction Buffer containing 1 µg of Lambda-HindIII DNA and a minimum of 6 units of ShortCut® RNase III incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | Pass |
| Protein Purity Assay (SDS-PAGE) ShortCut® RNase III is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection. | Pass |
| RNase Activity (Extended Digestion) | Pass |



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

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Timothy Meixsell Production Scientist 05 Mar 2021

Michael Tonello

Packaging Quality Control Inspector

05 Mar 2021