

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

| Product Name: | DNase I (RNase-free) |
|------------------------|--|
| Catalog Number: | M0303L |
| Concentration: | 2,000 U/ml |
| Unit Definition: | One unit is defined as the amount of enzyme which will completely degrade 1 µg of pBR322 DNA in 10 minutes at 37°C in DNase I Reaction Buffer. Complete degradation is defined as the reduction of the majority of DNA fragments to tetranucleotides or smaller. |
| Packaging Lot Number: | 10133496 |
| Expiration Date: | 11/2023 |
| Storage Temperature: | -20°C |
| Storage Conditions: | 10 mM Tris-HCl (pH 7.6), 2 mM CaCl2 , 50 % Glycerol |
| Specification Version: | PS-M0303S/L v1.0 |

| DNase I (RNase-free) Component List | | | | |
|-------------------------------------|-------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| M0303LVIAL | DNase I (RNase-free) | 10123433 | Pass | |
| B0303SVIAL | DNase I Reaction Buffer | 10121416 | Pass | |

| Assay Name/Specification | Lot # 10133496 |
|---|----------------|
| Protein Purity Assay (SDS-PAGE) DNase I (RNase-free) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection. | Pass |
| RNase Activity (ds RNA) A 50 µl reaction in DNase I Reaction Buffer containing 10 µg of a dsRNA Ladder and a minimum of 100 units of DNase I (RNase-free) is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by fluorescent detection. | Pass |
| RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 2 units of DNase I (RNase-free) is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection. | Pass |
| RNase Activity (Extended Digestion) A 10 μl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA | Pass |





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| Assay Name/Specification | Lot # 10133496 |
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| and a minimum of 2 units of DNase I (RNase-free) is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by | |
| gel electrophoresis using fluorescent detection. | |

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 for additional information.

m J. Loei

John Greci Production Scientist 13 Jan 2022

Michae m. 11

Michael Tonello Packaging Quality Control Inspector 13 Jan 2022

