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: RNase I
Catalog Number: M0243L
Concentration: 50,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to fully digest

1 picomole of synthetic ssRNA 33-mer in a total reaction volume of

10 μl in 15 minutes in 1X NEBuffer 3 as visualized on a 20%

acrylamide gel.

Packaging Lot Number: 10222368
Expiration Date: 12/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.5 mM EDTA, 50 % Glycerol,

(pH 8.0 @ 25°C)

Specification Version: PS-M0243S/L v1.0

RNase I Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0243LVIAL	RNase If	10219520	Pass	
B7003SVIAL	NEBuffer™ 3	10173669	Pass	

Assay Name/Specification	Lot # 10222368
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in NEBuffer 3 containing 1 µg of supercoiled PhiX174 DNA and a	
minimum of 50 units of RNase If incubated for 4 hours at 37°C results in <10%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer 3 containing 1 µg of a mixture of single and	Fass
double-stranded [3H] E. coli DNA and a minimum of 50 units of RNase If incubated	
for 1 hour at 37°C releases <0.1% of the total radioactivity.	

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.



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Production Scientist 05 Dec 2023

Josh Hersey Packaging Quality Control Inspector

21 Dec 2023