

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: 10154173
Expiration Date: 05/2024
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	10151529	Pass
B7003SVIAL	NEBuffer™ 3	10143290	Pass

Assay Name/Specification	Lot # 10154173
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3 containing 1 µg of a mixture of single and double-stranded [³ H] 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.	Pass
Endonuclease Activity (Nicking) 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.	Pass

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.

Timothy Meixsell

Timothy Meixsell
Production Scientist
31 May 2022

Erin Varney

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Packaging Quality Control Inspector
31 May 2022