

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:	RNase If
Catalog Number:	M0243S
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 μ l in 15 minutes in 1X NEBuffer 3 as visualized on a 20% acrylamide gel.
Packaging Lot Number:	10195949
Expiration Date:	07/2025
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 If Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0243SVIAL	RNase If	10195948	Pass
B7003SVIAL	NEBuffer™ 3	10173669	Pass

Assay Name/Specification	Lot # 10195949
Endonuclease Activity (Nicking) A 50 μ I reaction in NEBuffer 3 containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 50 units of RNase If incubated for 4 hours at 37°C results in <10%	Pass
conversion to the nicked form as determined by agarose gel electrophoresis. Exonuclease Activity (Radioactivity Release) A 50 μl reaction in NEBuffer 3 containing 1 μg of a mixture of single and double stranded [34] E activity and a miximum of 50 units of RNasa If insultated	Pass
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.	

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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Bo Wu **Production Scientist** 03 Jul 2023

Josh Hersey Packaging Quality Control Inspector 01 Aug 2023

