

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 µl in 15 minutes in 1X NEBuffer 3 as visualized on a 20% acrylamide gel.
Lot Number: 10049692
Expiration Date: 04/2021
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	10045956	Pass
B7003SVIAL	NEBuffer™ 3	0111804	Pass

Assay Name/Specification	Lot # 10049692
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
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

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

Timothy Meixsell

Tim Meixsell
Production Scientist
27 Jun 2019

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
29 Jul 2019