

## 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:** *10077384*  
**Expiration Date:** *06/2022*  
**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	10077385	Pass
B7003SVIAL	NEBuffer™ 3	10048944	Pass

Assay Name/Specification	Lot # 10077384
<b>Endonuclease Activity (Nicking)</b> 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
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in NEBuffer 3 containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> 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*

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Timothy Meixsell  
Production Scientist  
01 Jul 2020

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
01 Jul 2020