NEW ENGLAND BioLabs Inc.
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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.*
Packaging Lot Number:	*10151527*
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 If Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
M0243SVIAL	RNase If	10151528	**Pass**
B7003SVIAL	NEBuffer™ 3	10143290	**Pass**

Assay Name/Specification	**Lot # 10151527**
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.

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09 Jun 2022

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