

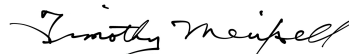
New England Biolabs Certificate of Analysis

Product Name: RNase If
Catalog #: M0243S/L
Concentration: 50,000 units/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 #: 0161801
Assay Date: 01/2018
Expiration Date: 01/2020
Storage Temp: -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
Effective Date: 23 May 2018

Assay Name/Specification (minimum release criteria)	Lot #0161801
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] <i>E. coli</i> 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



Authorized by
Derek Robinson
23 May 2018



Inspected by
Timothy Meixsell
17 Jan 2018

