

New England Biolabs Certificate of Analysis

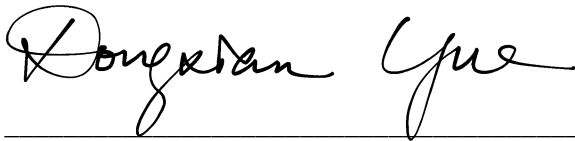
Product Name: RNase Inhibitor, Murine
Catalog Number: M0314S
Concentration: 40,000 U/ml
Unit Definition: One unit is defined as the amount of Murine RNase Inhibitor required to inhibit the activity of 5ng of RNase A by 50%. Activity is measured by the inhibition of hydrolysis of cytidine 2', 3'-cyclic monophosphate by RNase A.
Lot Number: 10046912
Expiration Date: 03/2021
Storage Temperature: -20°C
Storage Conditions: 50 mM KCl, 20 mM HEPES (pH 7.6), 8 mM DTT, 50 % Glycerol
Specification Version: PS-M0314S/L v1.0

RNase Inhibitor, Murine Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0314SVIAL	RNase Inhibitor, Murine	10037466	Pass

Assay Name/Specification	Lot # 10046912
<p>Latent RNase Activity (Extended Digest) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 40 units of heat inactivated RNase Inhibitor, Murine is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) RNase Inhibitor, Murine is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	Pass
<p>RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 40 units of RNase Inhibitor, Murine is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	Pass
<p>Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 4 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 200 units of RNase Inhibitor,</p>	Pass

Assay Name/Specification	Lot # 10046912
<p>Murine incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p> <p>Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 4 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 40 units of RNase Inhibitor, Murine incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	<p>Pass</p>

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



Dongxian Yue
Production Scientist
12 Mar 2019



Michael Tonello
Packaging Quality Control Inspector
02 Jul 2019