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New England Biolabs Certificate of Analysis

Product Name: RNase Inhibitor, Human Placenta

Catalog Number: M0307L
Concentration: 40,000 U/ml

Unit Definition: One unit is defined as the amount of RNase Inhibitor, Human Placenta

required to inhibit the activity of 5 ng of RNase A by 50%. Activity

is measured by the inhibition of hydrolysis of cytidine 2',

3'-cyclic monophosphate by RNase A.

Packaging Lot Number: 10115396
Expiration Date: 08/2023
Storage Temperature: -20°C

Storage Conditions: 50 mM KCI, 20 mM HEPES (pH 7.6), 8 mM DTT, 50 % Glycerol

Specification Version: PS-M0307S/L v1.0

RNase Inhibitor, Human Placenta Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0307LVIAL	RNase Inhibitor, Human Placenta	10115397	Pass	

Assay Name/Specification	Lot # 10115396
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, Human Placenta 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.	Pass
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, Human Placenta incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
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, Human Placenta incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE)	Pass



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by gel electrophoresis using fluorescent detection.

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

After incubation for 4 hours, >90% of the substrate RNA remains intact as determined

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Bhairavi Jani **Production Scientist**

16 Aug 2021



