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New England Biolabs Certificate of Analysis

Product Name: RNase Inhibitor, Human Placenta

Catalog Number: M0307S
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.

Lot Number: 10031690
Expiration Date: 01/2021
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	
M0307SVIAL	RNase Inhibitor, Human Placenta	10031691	Pass	

Assay Name/Specification	Lot # 10031690
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
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
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
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.

Dongxian Yue Production Scientist

22 Jan 2019

Michael Tonello

Packaging Quality Control Inspector

25 Mar 2019