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New England Biolabs Certificate of Analysis

Product Name: T4 RNA Ligase 1 (ssRNA Ligase)

Catalog Number: M0204L
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to convert 1

nanomole of 5'-[32P] rA16 into a phosphatase-resistant form in 30

minutes at 37°C.

Packaging Lot Number: 10062828
Expiration Date: 11/2021
Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, (pH

7.4 @ 25°C)

Specification Version: PS-M0204S/L v1.0

T4 RNA Ligase 1 (ssRNA Ligase) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
P0756SVIAL	Adenosine 5'-Triphosphate (ATP)	10058045	Pass	
M0204LVIAL	T4 RNA Ligase 1 (ssRNA Ligase)	10062827	Pass	
B1004AVIAL	PEG 8000	10036770	Pass	
B0216SVIAL	T4 RNA Ligase Reaction Buffer	10069909	Pass	

Assay Name/Specification	Lot # 10062828
Endonuclease Activity (Nicking) A 50 μL reaction in T4 RNA Ligase 1 Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 30 units of T4 RNA Ligase 1 (ssRNA Ligase) 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 T4 RNA Ligase 1 Reaction Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 30 units of T4 RNA Ligase 1 (ssRNA Ligase) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Protein Purity Assay (SDS-PAGE) T4 RNA Ligase 1 (ssRNA Ligase) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass



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

gel electrophoresis using fluorescent detection.

Brad Landgraf Production Scientist

22 Nov 2019

Michael Tonello

Packaging Quality Control Inspector

18 Mar 2020

