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New England Biolabs Certificate of Analysis

Product Name: T4 RNA Ligase 1 (ssRNA Ligase)

Catalog Number: M0204S
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: 10097601
Expiration Date: 02/2023
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	
M0204SVIAL	T4 RNA Ligase 1 (ssRNA Ligase)	10097597	Pass	
B1004SVIAL	PEG 8000	10098513	Pass	
B0756AVIAL	Adenosine-5'-Triphosphate (ATP)	10100015	Pass	
B0216SVIAL	T4 RNA Ligase Reaction Buffer	10100014	Pass	

Assay Name/Specification	Lot # 10097601
qPCR DNA Contamination (E. coli Genomic) A minimum of 10 units of T4 RNA Ligase 1 (ssRNA Ligase) is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	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
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 1 µl of T4 RNA Ligase 1 (ssRNA Ligase) is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass



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

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

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Production Scientist 08 Mar 2021

radioactivity.

Michael Tonello

Packaging Quality Control Inspector

08 Mar 2021