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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.

Lot Number: 10008843
Expiration Date: 04/2020
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			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
M0204SVIAL	T4 RNA Ligase 1 (ssRNA Ligase)	0671804	Pass
B1004SVIAL	PEG 8000	0151708	Pass
B0756AVIAL	Adenosine-5'-Triphosphate (ATP)	0151804	Pass
B0216SVIAL	T4 RNA Ligase Reaction Buffer	10008137	Pass

Assay Name/Specification	Lot # 10008843
qPCR DNA Contamination (E. coli Genomic)	Pass
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.	
Contamination is 2 i L. coil genome.	
Protein Purity Assay (SDS-PAGE)	Pass
T4 RNA Ligase 1 (ssRNA Ligase) is ≥ 95% pure as determined by SDS-PAGE analysis	
using Coomassie Blue detection.	
RNase Activity (Extended Digestion)	Pass
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.	



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

Production Scientist 17 May 2018

radioactivity.

Michael Tonello

Packaging Quality Control Inspector

30 May 2018

