

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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.

Lot Number: 10048648
Expiration Date: 05/2021
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)	10045567	Pass
M0204LVIAL	T4 RNA Ligase 1 (ssRNA Ligase)	10048649	Pass
B1004SVIAL	PEG 8000	10045988	Pass
B0216SVIAL	T4 RNA Ligase Reaction Buffer	10048447	Pass

Assay Name/Specification	Lot # 10048648
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



M0204L / Lot: 10048648

Page 1 of 2

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

gel electrophoresis using fluorescent detection.

Alicia Bielik Production Scientist

30 May 2019

Jay Minichiello

Packaging Quality Control Inspector

07 Aug 2019



2014-