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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: 10208178
Expiration Date: 01/2025
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)	10184022	Pass
B1004SVIAL	PEG 8000	10181125	Pass
B0756AVIAL	Adenosine-5'-Triphosphate (ATP)	10177025	Pass
B0216SVIAL	T4 RNA Ligase Reaction Buffer	10181127	Pass

Assay Name/Specification	Lot # 10208178
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.

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Jessica Cane Production Scientist 19 Jan 2023

Packaging Quality Control Inspector

22 Sep 2023

Josh Hersey

