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New England Biolabs Certificate of Analysis

Product Name: T4 RNA Ligase 2, truncated

Catalog Number: M0242S
Concentration: 200,000 U/ml

Unit Definition: 200 units is defined as the amount of enzyme required to give 80%

ligation of a 31-mer RNA to the pre-adenylated end of a##17-mer DNA

in a total reaction volume of 20 µl in 1 hour at 25°C.

Lot Number: 10024994
Expiration Date: 02/2020
Storage Temperature: -20°C

Storage Conditions: 100 mM NaCl , 10 mM Tris-HCl , 1 mM DTT , 0.1 mM EDTA , 50 %

Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0242S/L v2.0

T4 RNA Ligase 2, truncated Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0242SVIAL	T4 RNA Ligase 2, truncated	0091802	Pass	
B1004SVIAL	PEG 8000	10015226	Pass	
B0216SVIAL	T4 RNA Ligase Reaction Buffer	10008137	Pass	

Assay Name/Specification	Lot # 10024994
Endonuclease Activity (Nicking) A 50 μl reaction in T4 RNA Ligase Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 200 units of T4 RNA Ligase 2, truncated 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 Reaction Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 200 units of T4 RNA Ligase 2, truncated incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl2 containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 200 units of T4 RNA Ligase 2, truncated incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass



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

Bo Wu

Production Scientist

17 May 2018

Michael Tonello

Packaging Quality Control Inspector

12 Oct 2018



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