

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 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.

Packaging Lot Number: 10097257
Expiration Date: 11/2022
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	10088989	Pass	
B1004SVIAL	PEG 8000	10084292	Pass	
B0216SVIAL	T4 RNA Ligase Reaction Buffer	10084291	Pass	

Assay Name/Specification	Lot # 10097257
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
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
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



M0242S / Lot: 10097257

Page 1 of 2

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Bhairavi Jani Production Scientist

Coomassie Blue detection.

22 Feb 2021

Michael Tonello

Packaging Quality Control Inspector

22 Feb 2021



M0242S / Lot: 10097257

Page 2 of 2