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New England Biolabs Certificate of Analysis

Product Name: T4 RNA Ligase 2, truncated K227Q

Catalog Number: M0351L
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: 10090706
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-M0351S/L v2.0

T4 RNA Ligase 2, truncated K227Q Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0351LVIAL	T4 RNA Ligase 2, truncated K227Q	10090707	Pass
B1004SVIAL	PEG 8000	10084292	Pass
B0216SVIAL	T4 RNA Ligase Reaction Buffer	10069909	Pass

Assay Name/Specification	Lot # 10090706
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 K227Q 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 K227Q incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Phosphatase Activity (pNPP) A 200 ul 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 K227Q incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass



M0351L / Lot: 10090706

Page 1 of 2

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

determined by gel electrophoresis using fluorescent detection.

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Bhairavi Jani Production Scientist

07 Dec 2020

Michael Tonello

Packaging Quality Control Inspector

07 Dec 2020

