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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: 10163624
Expiration Date: 09/2024
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	10163623	Pass	
B1004SVIAL	PEG 8000	10153719	Pass	
B0216SVIAL	T4 RNA Ligase Reaction Buffer	10153851	Pass	

Assay Name/Specification	Lot # 10163624
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
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
Protein Purity Assay (SDS-PAGE) T4 RNA Ligase 2, truncated K227Q is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Phosphatase Activity (pNPP)	Pass



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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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Bo Wu

Production Scientist 20 Sep 2022 Josh Hersey

Packaging Quality Control Inspector

29 Sep 2022



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