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New England Biolabs Certificate of Analysis

Product Name: Taq DNA Ligase

Catalog Number: M0208L
Concentration: 40,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to give 50%

ligation of the 12-base pair cohesive ends of 1 μg of

BstEII-digested Lambda DNA in a total reaction volume of 50 µl in 15

minutes at 45°C.

Packaging Lot Number: 10072387
Expiration Date: 02/2022
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 200 µg/ml BSA

, 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0208S/L v2.0

Taq DNA Ligase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0208LVIAL	Taq DNA Ligase	10065580	Pass
B0208SVIAL	Taq DNA Ligase Reaction Buffer	10042800	Pass

Assay Name/Specification	Lot # 10072387
Endonuclease Activity (Nicking)	Pass
A 50 μl reaction in NEBuffer 4 containing 1 μg of supercoiled PhiX174 DNA and a	
minimum of 400 units of Taq DNA Ligase incubated for 4 hours at 37°C results in <10%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in Taq DNA Ligase Reaction Buffer containing 1 µg of a mixture of	
single and double-stranded [3H] E. coli DNA and a minimum of 400 units of Taq DNA	
Ligase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in NEBuffer 4 containing 1 µg of Lambda-HindIII DNA and a minimum	
of 80 units of Taq DNA Ligase incubated for 16 hours at 37°C results in a DNA	
pattern free of detectable nuclease degradation as determined by agarose gel	
electrophoresis.	
Protein Purity Assay (SDS-PAGE)	Pass



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

and a minimum of 1 µl of Taq DNA Ligase is incubated at 37°C. After incubation for

16 hours, >90% of the substrate RNA remains intact as determined by gel

electrophoresis using fluorescent detection.

Ana Egana Production Scientist 03 Jun 2020 Michael Tonello

Packaging Quality Control Inspector

03 Jun 2020