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New England Biolabs Certificate of Analysis

Product Name: Quick CIP
Catalog Number: M0525L
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that hydrolyzes 1 μmol

of p-Nitrophenyl Phosphate, PNPP in a total reaction volume of 1 ml

in 1 minute at 37°C.

Lot Number: 10047913
Expiration Date: 06/2021
Storage Temperature: -20°C

Storage Conditions: 25 mM Tris-HCl , 1 mM MgCl2 , 0.1 mM ZnCl2 , 50 % Glycerol, (pH 7.5

@ 25°C)

Specification Version: PS-M0525S/L v1.0

Quick CIP Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0525LVIAL	Quick CIP	10047903	Pass	
B7204SVIAL	CutSmart® Buffer	10043351	Pass	

Assay Name/Specification	Lot # 10047913
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 4 containing 1 µg of PhiX174-HaeIII DNA and a minimum of 50 units of Quick CIP incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart® Buffer containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of Quick CIP incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in CutSmart® Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 50 units of Quick CIP incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA	Pass



M0525L / Lot: 10047913

Page 1 of 2



Assay Name/Specification	Lot # 10047913
and a minimum of 1 µl of Quick CIP is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using gel electrophoresis using fluorescent detection.	

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

Doreen Duquette
Production Scientist

21 May 2019

Jay Minichiello

Packaging Quality Control Inspector

21 Jun 2019

