

New England Biolabs Certificate of Analysis

Product Name: Quick CIP
Catalog Number: M0525S
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.
Packaging Lot Number: 10132820
Expiration Date: 07/2023
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

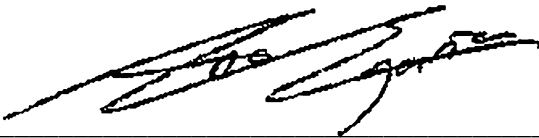
Quick CIP Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0525SVIAL	Quick CIP	10107423	Pass
B6004SVIAL	rCutSmart™ Buffer	10127378	Pass

Assay Name/Specification	Lot # 10132820
<p>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.</p>	Pass
<p>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.</p>	Pass
<p>RNase Activity (Extended Digestion) A 10 μl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA 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.</p>	Pass
<p>Endonuclease Activity (Nicking)</p>	Pass

Assay Name/Specification	Lot # 10132820
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.	

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

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Ana Egana
Production Scientist
11 Jan 2022



Michael Tonello
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11 Jan 2022