

## 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  $\mu\text{mol}$  of p-Nitrophenyl Phosphate, PNPP in a total reaction volume of 1 ml in 1 minute at 37°C.  
**Packaging Lot Number:** 10180328  
**Expiration Date:** 10/2024  
**Storage Temperature:** -20°C  
**Storage Conditions:** 25 mM Tris-HCl, 1 mM MgCl<sub>2</sub>, 0.1 mM ZnCl<sub>2</sub>, 50 % Glycerol, (pH 7.5 @ 25°C)  
**Specification Version:** PS-M0525S/L v1.0

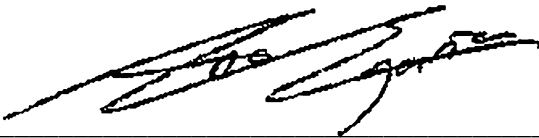
Quick CIP Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0525SVIAL	Quick CIP	10161213	Pass
B6004SVIAL	rCutSmart™ Buffer	10176423	Pass

Assay Name/Specification	Lot # 10180328
<b>Endonuclease Activity (Nicking)</b> A 50 $\mu\text{l}$ reaction in CutSmart® Buffer containing 1 $\mu\text{g}$ 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
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 $\mu\text{l}$ reaction in CutSmart® Buffer containing 1 $\mu\text{g}$ of a mixture of single and double-stranded [ <sup>3</sup> H] 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
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 $\mu\text{l}$ reaction in NEBuffer 4 containing 1 $\mu\text{g}$ 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
<b>RNase Activity (Extended Digestion)</b> A 10 $\mu\text{l}$ reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA	Pass

Assay Name/Specification	Lot # 10180328
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.

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21 Mar 2023



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