

## 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:** 10238399  
**Expiration Date:** 02/2026  
**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             | 10226662   | Pass                 |
| B6004SVIAL               | rCutSmart™ Buffer     | 10237088   | Pass                 |

| Assay Name/Specification  | Lot # 10238399 |
|---|----------------|
| <b>Endonuclease Activity (Nicking)</b><br>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><br>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><br>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><br>A 10 $\mu\text{l}$ reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA  | Pass           |

| Assay Name/Specification   | Lot # 10238399 |
|--|----------------|
| 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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Heidi Church  
Production Scientist  
29 Feb 2024




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Josh Hersey  
Packaging Quality Control Inspector  
13 May 2024