

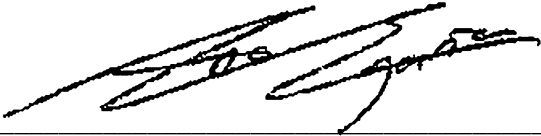
New England Biolabs Certificate of Analysis

Product Name: Quick Dephosphorylation Kit
Catalog Number: M0508S
Concentration: 10,000 U/ml
Unit Definition: N/A.
Lot Number: 10030329
Expiration Date: 01/2021
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-M0508S/L v1.0

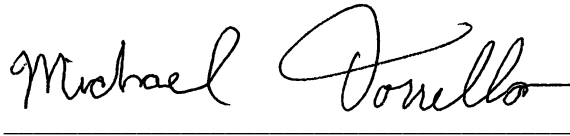
| Quick Dephosphorylation Kit Component List | | | |
|--|-----------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| M0510SVIAL | Quick CIP | 10030327 | Pass |
| B7204SVIAL | CutSmart® Buffer | 10031565 | Pass |

| Assay Name/Specification | Lot # 10030329 |
|--|----------------|
| Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 10 µl 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 |
| Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 10 µl of Quick CIP incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 4 containing 1 µg of PhiX174-HaeIII DNA and a minimum of 10 µl 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 |
| 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 fluorescent detection. | Pass |

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



Ana Egana
Production Scientist
24 Jan 2019



Michael Tonello
Packaging Quality Control Inspector
24 Jan 2019