

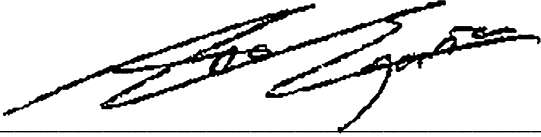
New England Biolabs Certificate of Analysis

Product Name: Quick Dephosphorylation Kit
Catalog Number: M0508L
Concentration: 10,000 U/ml
Unit Definition: N/A.
Lot Number: 10030330
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
M0510LVIAL	Quick CIP	10030328	Pass
B7204SVIAL	CutSmart® Buffer	10031565	Pass

Assay Name/Specification	Lot # 10030330
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
22 Jan 2019



Michael Tonello
Packaging Quality Control Inspector
22 Jan 2019