

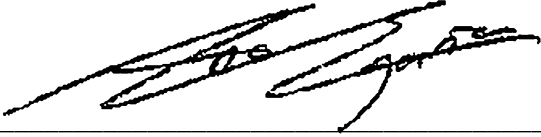
New England Biolabs Certificate of Analysis

Product Name: Quick Dephosphorylation Kit
Catalog Number: M0508S
Concentration: 10,000 U/ml
Unit Definition: N/A.
Lot Number: 10016586
Expiration Date: 08/2020
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	10017124	Pass
B7204SVIAL	CutSmart® Buffer	10014372	Pass

Assay Name/Specification	Lot # 10016586
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
15 Aug 2018



Michael Tonello
Packaging Quality Control Inspector
15 Aug 2018