NEW ENGLAND BioLabs Inc.
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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 µmol of p-Nitrophenyl Phosphate, PNPP in a total reaction volume of 1 ml in 1 minute at 37°C.*
Lot Number:	*10047911*
Expiration Date:	*06/2021*
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-M0525S/L v1.0*

Quick CIP Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
M0525SVIAL	Quick CIP	10047902	**Pass**
B7204SVIAL	CutSmart® Buffer	10043351	**Pass**

Assay Name/Specification	**Lot # 10047911**
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 gel electrophoresis using fluorescent detection.	**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 50 units of Quick CIP incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation 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 50 units of Quick CIP incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	**Pass**
Endonuclease Activity (Nicking)	**Pass**

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Assay Name/Specification	Lot # 10047911
A 50 µl reaction in CutSmart® Buffer containing 1 µg 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.	

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

Doreen Duquette
Production Scientist
21 May 2019

Jay Minichiello
Packaging Quality Control Inspector
21 Jun 2019