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.*
Packaging Lot Number:	*10121353*
Expiration Date:	*07/2023*
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	10107423	**Pass**
B6004SVIAL	rCutSmart™ Buffer	10120518	**Pass**

Assay Name/Specification	**Lot # 10121353**
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**
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**
Endonuclease Activity (Nicking) 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.	**Pass**
Exonuclease Activity (Radioactivity Release)	**Pass**

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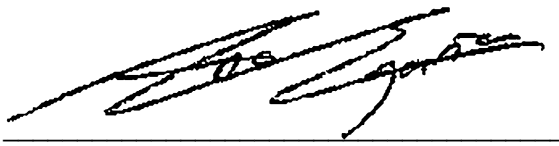
Assay Name/Specification	Lot # 10121353
A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [^{3}H] E. coli DNA and a minimum of 50 units of Quick CIP incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



Ana Egana
Production Scientist
30 Sep 2021

Michael Tonello
Packaging Quality Control Inspector
30 Sep 2021