NEW ENGLAND BioLabs® Inc.

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New England Biolabs
Certificate of Analysis

Product Name:	*Casein Kinase I (CK1)*
Catalog #:	*P6030S/L*
Concentration:	*1,000,000 units/ml*
Unit Definition:	*One unit is defined as the amount of CK1 required to catalyze the transfer of 1 pmol of phosphate to CK1 Phosphopeptide Substrate, KRRRALpSVASLPGL (70 µM), in 1 minute at 30°C in a total reaction volume of 25 µl.*
Lot #:	*0121603*
Assay Date:	*03/2016*
Expiration Date:	*3/2017*
Storage Temp:	*-20°C*
Storage Conditions:	*100 mM NaCl , 20 mM Tris-HCl , 2 mM DTT , 1 mM EDTA , 1 mM EGTA , 50 % Glycerol , 0.1 % Triton®X-100, (pH 7.0 @ 25°C)*
Specification Version:	*PS-P6030S/L v1.0*
Effective Date:	*12 Feb 2016*

Assay Name/Specification (minimum release criteria)	**Lot #0121603**
Phosphatase Activity (pNPP) - A 220 µl reaction in NEBuffer for Protein Kinases containing 50 mM *p*-Nitrophenyl Phosphate (pNPP) and a minimum of 10,000 units Casein Kinase I (CK1) incubated for 2 hours at 30°C yields no detectable phosphatase activity as determined by spectrophotometric analysis.	**Pass**
Protease Activity (SDS-PAGE) - A 20 µl reaction in 1X NEBuffer for Protein Kinases containing 24 µg of a standard mixture of proteins and a minimum of 10,000 units of Casein Kinase I (CK1) incubated for 2 hours at 30°C, results in no detectable degradation of the protein mixture as determined by SDS-PAGE with Coomassie Blue detection.	**Pass**

Authorized by
Derek Robinson
12 Feb 2016

Inspected by
Jeremiah Read
30 Mar 2016

ISO 9001 Registered Quality Management
ISO 14001 Registered Environmental Management
ISO 13485 Registered Medical Devices