

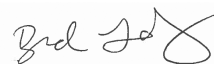
## New England Biolabs Certificate of Analysis

*Product Name:* Casein Kinase II (CK2)  
*Catalog #:* P6010S/L  
*Concentration:* 500,000 units/ml  
*Unit Definition:* One unit is defined as the amount of CK2 required to catalyze the transfer of 1 pmol of phosphate to CK2 Peptide Substrate, RRRADDSDDDDD (100 μM), in 1 minute at 30°C in a total reaction volume of 25 μl.  
*Lot #:* 0181710  
*Assay Date:* 10/2017  
*Expiration Date:* 10/2018  
*Storage Temp:* -80°C  
*Storage Conditions:* 350 mM NaCl, 20 mM Tris-HCl, 2 mM DTT, 1 mM EDTA, 0.1 % TritonX-100., (pH 7.5 @ 25°C)  
*Specification Version:* PS-P6010S/L v1.0  
*Effective Date:* 23 May 2017

Assay Name/Specification (minimum release criteria)	Lot #0181710
<b>Phosphatase Activity (pNPP)</b> - A 220 μl reaction in NEBuffer for Protein Kinases containing 50 mM <i>p</i> -Nitrophenyl Phosphate (pNPP) and a minimum of 5,000 units Casein Kinase II (CK2) incubated for 2 hours at 30°C yields no detectable phosphatase activity as determined by spectrophotometric analysis.	<b>Pass</b>
<b>Protease Activity (SDS-PAGE)</b> - A 20 μl reaction in 1X NEBuffer for Protein Kinases containing 24 μg of a standard mixture of proteins and a minimum of 5,000 units of Casein Kinase II (CK2) 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.	<b>Pass</b>



Authorized by  
Derek Robinson  
23 May 2017



Inspected by  
Brad Landgraf  
30 Oct 2017

