

New England Biolabs Product Specification

<i>Product Name:</i>	<i>Casein Kinase II (CK2)</i>
<i>Catalog #:</i>	<i>P6010S/L</i>
<i>Concentration:</i>	<i>500,000 units/ml</i>
<i>Unit Definition:</i>	<i>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.</i>
<i>Shelf Life:</i>	<i>12 months</i>
<i>Storage Temp:</i>	<i>-80°C</i>
<i>Storage Conditions:</i>	<i>350 mM NaCl, 20 mM Tris-HCl, 2 mM DTT, 1 mM EDTA, 0.1 % TritonX-100., (pH 7.5 @ 25°C)</i>
<i>Specification Version:</i>	<i>PS-P6010S/L v1.0</i>
<i>Effective Date:</i>	<i>10 Nov 2015</i>

Assay Name/Specification (minimum release criteria)

Phosphatase Activity (pNPP) - A 220 μl reaction in NEBuffer for Protein Kinases containing 50 mM *p*-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.

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 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.



Date 10 Nov 2015

Derek Robinson
Director of Quality Control

