

New England Biolabs Product Specification

<i>Product Name:</i>	<i>cAMP-dependent Protein Kinase (PKA), catalytic subunit</i>
<i>Catalog #:</i>	<i>P6000S/L</i>
<i>Concentration:</i>	<i>2,500,000 units/ml</i>
<i>Unit Definition:</i>	<i>One unit is defined as the amount of PKA catalytic subunit required to catalyze the transfer of 1 pmol of phosphate to Kemptide, LRRASLG (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>-20°C</i>
<i>Storage Conditions:</i>	<i>50 mM NaCl, 20 mM Tris-HCl, 2 mM DTT, 1 mM EDTA, 50 % Glycerol, (pH 7.5 @ 25°C)</i>
<i>Specification Version:</i>	<i>PS-P6000S/L v1.0</i>
<i>Effective Date:</i>	<i>02 Dec 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 20,000 units cAMP-dependent Protein Kinase (PKA), catalytic subunit 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 20,000 units of cAMP-dependent Protein Kinase (PKA), catalytic subunit 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 02 Dec 2015

Derek Robinson
Director of Quality Control

