

## New England Biolabs Certificate of Analysis

*Product Name:* cAMP-dependent Protein Kinase (PKA), catalytic subunit  
*Catalog #:* P6000S/L  
*Concentration:* 2,500,000 units/ml  
*Unit Definition:* 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.  
*Lot #:* 0181702  
*Assay Date:* 02/2017  
*Expiration Date:* 2/2018  
*Storage Temp:* -20°C  
*Storage Conditions:* 50 mM NaCl , 20 mM Tris-HCl , 2 mM DTT , 1 mM EDTA , 50 % Glycerol, (pH 7.5 @ 25°C)  
*Specification Version:* PS-P6000S/L v1.0  
*Effective Date:* 19 Feb 2016

Assay Name/Specification (minimum release criteria)	Lot #0181702
<p><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 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.</p>	<b>Pass</b>
<p><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 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.</p>	<b>Pass</b>



Authorized by  
Derek Robinson  
19 Feb 2016



Inspected by  
Alicia Bielik  
17 Feb 2017

