

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 #: 0181610
Assay Date: 10/2016
Expiration Date: 10/2017
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 #0181610
<p>Phosphatase Activity (pNPP) - 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>	Pass
<p>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.</p>	Pass



Authorized by
Derek Robinson
19 Feb 2016



Inspected by
Alicia Bielik
20 Oct 2016

