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## New England Biolabs Certificate of Analysis

Product Name: cAMP-dependent Protein Kinase (PKA), catalytic subunit

Catalog Number: P6000L

Concentration: 2,500,000 U/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  $\mu$ M) in 1 minute at 30°C in a total reaction volume of 25  $\mu$ L.

Lot Number: 10026146
Expiration Date: 10/2019
Storage Temperature: -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

cAMP-dependent Protein Kinase (PKA), catalytic subunit Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
P6000LVIAL	cAMP-dependent Protein Kinase (PKA), catalytic subunit	10023004	Pass	
B6022SVIAL	NEBuffer™ for Protein Kinases (PK)	0081709	Pass	

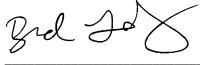
Assay Name/Specification	Lot # 10026146
Phosphatase Activity (pNPP) A 220 µl reaction in NEBuffer for Protein Kinases containing 50 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20,000 units cAMP-dependent Protein Kinase (PKA), catalytic subunit incubated for 2 hours at 30°C yields no detectable phosphatase activity as determined by spectrophotometric analysis.	Pass
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.	Pass

This product has been tested and shown to be in compliance with all specifications.



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Brad Landgraf Production Scientist 15 Oct 2018 Michael Tonello

Packaging Quality Control Inspector

15 Oct 2018