

## New England Biolabs Certificate of Analysis

**Product Name:** cAMP-dependent Protein Kinase (PKA), catalytic subunit  
**Catalog Number:** P6000S  
**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 µM) in 1 minute at 30°C in a total reaction volume of 25 µL.  
**Packaging Lot Number:** 10223935  
**Expiration Date:** 11/2024  
**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			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P6000SVIAL	cAMP-dependent Protein Kinase (PKA), catalytic subunit	10212174	Pass
B6022SVIAL	NEBuffer™ for Protein Kinases (PK)	10217787	Pass

Assay Name/Specification	Lot # 10223935
<p><b>Phosphatase Activity (pNPP)</b>            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.</p>	Pass
<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>	Pass

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

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17 Nov 2023



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14 Dec 2023