

New England Biolabs Certificate of Analysis

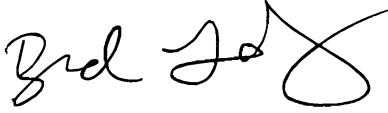
Product Name: *cAMP-dependent Protein Kinase (PKA), catalytic subunit*
Catalog Number: *P6000S*
Concentration: *2,500,000 U/ml*
Unit Definition: *One unit is defined as the amount of PKA catalytic subunit required to catalyze the transfer of 1 pmol of phosphate to Kemptide, LRRASLG (100 µM) in 1 minute at 30°C in a total reaction volume of 25 µL.*
Packaging Lot Number: *10249991*
Expiration Date: *06/2025*
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 v2.0*

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	10242005	Pass
B6022SVIAL	NEBuffer™ for Protein Kinases (PK)	10217787	Pass

Assay Name/Specification	Lot # 10249991
<p>Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl₂ containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20,000 units of cAMP-dependent Protein Kinase (PKA), catalytic subunit incubated for 4 hours at 37°C yields <0.0001 unit of alkaline 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

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

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Brad Landgraf
Production Scientist
27 Jun 2024



Michael Tonello
Packaging Quality Control Inspector
28 Jun 2024