240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350

www.neb.com info@neb.com

New England Biolabs Product Specification

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 μ M) in 1 minute at 30°C in a total reaction volume of 25 μ L.

Shelf Life: 12 months 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 v2.0 Effective Date: 04 Jun 2024

Assay Name/Specification (minimum release criteria)

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.

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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Lauren Brown Quality Approver







aurenbrow

Date 04 Jun 2024