New England Biolabs
Product Specification

Product Name: Casein Kinase II (CK2)
Catalog #: P6010S/L
Concentration: 500,000 units/ml
Unit Definition: One unit is defined as the amount of CK2 required to catalyze the transfer of 1 pmol of phosphate to CK2 Peptide Substrate, RRRADSDDDDDD (100 µM), in 1 minute at 30°C in a total reaction volume of 25 µl.
Shelf Life: 12 months
Storage Temp: -80°C
Storage Conditions: 350 mM NaCl, 20 mM Tris-HCl, 2 mM DTT, 1 mM EDTA, 0.1 % TritonX-100, (pH 7.5 @ 25°C)
Specification Version: PS-P6010S/L v1.0
Effective Date: 10 Nov 2015

Assay Name/Specification (minimum release criteria)

Phosphatase Activity (pNPP) - A 220 µl reaction in NEBuffer for Protein Kinases containing 50 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 5,000 units Casein Kinase II (CK2) incubated for 2 hours at 30°C yields no detectable 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 5,000 units of Casein Kinase II (CK2) 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.

Derek Robinson
Director of Quality Control

Date 10 Nov 2015

PS-P6010S/L v1.0
Page 1 of 1