

New England Biolabs Certificate of Analysis

Product Name: Glycogen Synthase Kinase 3 (GSK-3)
Catalog #: P6040S/L
Concentration: 500,000 units/ml
Unit Definition: One unit is defined as the amount of GSK-3 required to catalyze the transfer of 1 pmol of phosphate to CREB Phosphopeptide, KRREILSRRPpSYR (400 μM), in 1 minute at 30°C in a total reaction volume of 25 μl.
Lot #: 0291608
Assay Date: 08/2016
Expiration Date: 08/2017
Storage Temp: -20°C
Storage Conditions: 50 mM NaCl , 20 mM Tris-HCl , 5 mM DTT , 1 mM EDTA , 50 % Glycerol , 0.03 % Brij® 35, (pH 7.5 @ 25°C)
Specification Version: PS-P6040S/L v1.0
Effective Date: 19 Feb 2016

Assay Name/Specification (minimum release criteria)	Lot #0291608
Phosphatase Activity (pNPP) - A 220 μl reaction in NEBuffer for Protein Kinases containing 50 mM <i>p</i> -Nitrophenyl Phosphate (pNPP) and a minimum of 1,000 units Glycogen Synthase Kinase 3 (GSK-3) 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 1,000 units of Glycogen Synthase Kinase 3 (GSK-3) 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



Authorized by
Derek Robinson
19 Feb 2016



Inspected by
Alicia Bielik
31 Aug 2016

