

## New England Biolabs Certificate of Analysis

**Product Name:** Casein Kinase II (CK2)  
**Catalog Number:** P6010S  
**Concentration:** 500,000 U/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, RRRADDSDDDDD (100 µM), in 1 minute at 30°C in a total reaction volume of 25 µl.  
**Packaging Lot Number:** 10081898  
**Expiration Date:** 09/2021  
**Storage Temperature:** -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

Casein Kinase II (CK2) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P6010SVIAL	Casein Kinase II (CK2)	10081899	Pass
B6022SVIAL	NEBuffer™ for Protein Kinases (PK)	10056440	Pass

Assay Name/Specification	Lot # 10081898
<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 5,000 units Casein Kinase II (CK2) incubated for 2 hours at 30°C yields no detectable phosphatase activity as determined by spectrophotometric analysis.	Pass
<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 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.	Pass

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

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21 Sep 2020



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