

## New England Biolabs Certificate of Analysis

**Product Name:** Casein Kinase II (CK2)  
**Catalog Number:** P6010L  
**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.  
**Lot Number:** 10036897  
**Expiration Date:** 03/2020  
**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 |
| P6010LVIAL                            | Casein Kinase II (CK2)             | 10036898   | Pass                 |
| B6022SVIAL                            | NEBuffer™ for Protein Kinases (PK) | 0081709    | Pass                 |

| Assay Name/Specification   | Lot # 10036897 |
|--|----------------|
| <b>Phosphatase Activity (pNPP)</b><br>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><br>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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Brad Landgraf  
Production Scientist  
07 Mar 2019



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Michael Tonello  
Packaging Quality Control Inspector  
23 May 2019