

New England Biolabs Certificate of Analysis

Product Name: ATP Sulfurylase
Catalog Number: M0394S
Concentration: 300 U/ml
Unit Definition: One unit is defined as the amount of enzyme that catalyzes the conversion of 1 μ mol of APS and PPI to ATP in one minute at 30°C in a total reaction volume of 40 μ l.
Lot Number: 10028971
Expiration Date: 11/2019
Storage Temperature: -20°C
Storage Conditions: 100 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, (pH 7.4 @ 25°C)
Specification Version: PS-M0394S/L v2.0

ATP Sulfurylase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0394SVIAL	ATP Sulfurylase	10022414	Pass

Assay Name/Specification	Lot # 10028971
<p>Non-Specific DNase Activity A 50 μl reaction in CutSmart® Buffer containing 1 μg of 1 kb Plus DNA Ladder and a minimum of 1.5 units of ATP Sulfurylase incubated for 20 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) ATP Sulfurylase is \geq 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	Pass
<p>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 1.5 units of ATP Sulfurylase incubated for 20 hours at 37°C yields <0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.</p>	Pass

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

Lauren Higgins

Lauren Sears Higgins
Production Scientist
06 Nov 2018

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
06 Nov 2018