

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Adenosine-5 Triphosphate (ATP)
Catalog Number:	P0756S
Concentration:	10 mM
Unit Definition:	N/A
Packaging Lot Number:	10190592
Expiration Date:	01/2025
Storage Temperature:	-20°C
Storage Conditions:	Milli-Q® Water as a sodium salt, (pH 7.0 @ 25°C)
Specification Version:	PS-P0756S/L v2.0

Adenosine-5 Triphosphate (ATP) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
P0756SVIAL	Adenosine 5'-Triphosphate (ATP)	10176561	Pass	

Assay Name/Specification	Lot # 10190592
Endonuclease Activity (Nicking) A 50 μ I reaction in CutSmart® Buffer containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 1 mM of ATP incubated for 4 hours at 30°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart® Buffer containing 1 μg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 1 mM of ATP incubated for 4 hours at 30°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μ I reaction in NEBuffer 2 containing 1 μ g of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 10 μ I of ATP incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
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 mM of ATP incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass





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Assay Name/Specification	Lot # 10190592
Protease Activity (SDS-PAGE) A 20 μ I reaction in 1X CutSmart® Buffer containing 24 μ g of a standard mixture of proteins and a minimum of 1 mM of ATP incubated for 16 hours at 37°C, results in no detectable degradation of the protein mixture as determined by SDS-PAGE with Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) A 10 μl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 mM of ATP is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass

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

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Maxwell/Elkus Production Scientist 13 Jan 2023

Michae

Michael Tonello Packaging Quality Control Inspector 13 Jun 2023

