

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: P0756L
Concentration: 10 mM
Unit Definition: N/A

Lot Number: 10035816
Expiration Date: 01/2021
Storage Temperature: -20°C

Storage Conditions: Milli-Q® Water as a sodium salt, (pH 7.0 @ 25°C)

Specification Version: PS-P0756S/L v1.0

Adenosine-5 Triphosphate (ATP) Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
P0756SVIAL	Adenosine 5'-Triphosphate (ATP)	10034352	Pass	

Assay Name/Specification	Lot # 10035816
Protease Activity (SDS-PAGE) A 20 μl reaction in 1X CutSmart® Buffer containing 24 μg 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
Endonuclease Activity (Nicking) A 50 μl reaction in CutSmart® Buffer containing 1 μg 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
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 μl reaction in CutSmart® Buffer containing 1 μg of a mixture of single and double-stranded [ ³H] 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



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

Alicia Bielik Production Scientist

25 Jan 2019

Michael Tonello

Packaging Quality Control Inspector

06 Feb 2019



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