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## New England Biolabs Certificate of Analysis

Product Name: Adenosine-5 Triphosphate (ATP)

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

Packaging Lot Number: 10119885
Expiration Date: 07/2023
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			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
P0756SVIAL	Adenosine 5'-Triphosphate (ATP)	10109057	Pass

Assay Name/Specification	Lot # 10119885
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
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
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
Exonuclease Activity (Radioactivity Release) 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Alicia Bielik Production Scientist

determined by agarose gel electrophoresis.

31 Aug 2021

Josh Hersey

Packaging Quality Control Inspector

31 Aug 2021



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