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## 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: 10070030
Expiration Date: 11/2021
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)	10058045	Pass

Assay Name/Specification	Lot # 10070030
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
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
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 10 µl 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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This product has been tested and shown to be in compliance with all specifications.

Alicia Bielik Production Scientist

fluorescent detection.

05 May 2020

av Minichiello

Packaging Quality Control Inspector

05 May 2020



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