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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: 10102354
Expiration Date: 02/2023
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			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P0756SVIAL	Adenosine 5'-Triphosphate (ATP)	10094836	Pass

Assay Name/Specification	Lot # 10102354
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
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
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



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

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Alicia Bielik Production Scientist

spectrophotometric analysis.

02 Apr 2021

Michael Tonello

Packaging Quality Control Inspector

02 Apr 2021



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