

Certificate of Analysis



Compound Name	Adenosine 5'-triphosphate (ATP), 100 mM sodium salt solution
CAS Number	987-65-5
Catalog Number	ATP_100ML ATP_1000ML
Lot Number	101.707
Formula	C₁₀H₁₃N₅O₁₃P₃
Formula Weight	504.16 g/mol
Storage	at -20°C
Stability	24 months from Certification Date

	Test	Specification	Results
Biophysical	Appearance	clear colorless solution	conforms
	Concentration ⁽¹⁾ (A _{259 nm} , 22 °C, pH 7.0, ε = 15.1 l x mmol ⁻¹ x cm ⁻¹)	100 mM ± 2%	99 mM
	A _{250 nm} / A _{260 nm} (22 °C, pH 7.0)	0.78 ± 0.03	0.76
	A _{280 nm} / A _{260 nm} (22 °C, pH 7.0)	0.15 ± 0.02	0.16
	pH (22 °C)	8.0 ± 0.2	8.1
HPLC	ATP (C18-RP-UV, 259 nm)	≥ 99.0% (area)	99.0%
	ADP (C18-RP-UV, 259 nm)	≤ 1.0% (area)	1.0%
Functional	in vitro Transcription (T7 RNA polymerase, 1423 bp template)	visible RNA fragment after 5 min incubation	conforms
	DNases, RNases, Nicking Activity (FRET)	not detectable	conforms
	Proteases (UV-Vis)	not detectable	conforms

Certification Date: 2018, September 24

Dirk Femerling, Quality Control