

# Certificate of Analysis



<b>Compound Name</b>	<b>Adenosine 5'-triphosphate (ATP), Disodium Salt x 3 H<sub>2</sub>O</b>
<b>CAS Number</b>	<b>51963-61-2</b>
<b>Catalog Number</b>	<b>ATP_100G ATP_1000G</b>
<b>Lot Number</b>	<b>101.652</b>
<b>Formula</b>	<b>C<sub>10</sub>H<sub>14</sub>N<sub>5</sub>Na<sub>2</sub>O<sub>13</sub>P<sub>3</sub> x 3 H<sub>2</sub>O</b>
<b>Formula Weight</b>	<b>605.18 g/mol</b>
<b>Storage</b>	<b>at -20°C</b>
<b>Stability</b>	<b>24 months from Certification Date</b>

	<b>Test</b>	<b>Specification</b>	<b>Results</b>
<b>Biophysical</b>	Appearance	white powder	conforms
	A <sub>250 nm</sub> / A <sub>260 nm</sub> (22 °C, pH 7.0)	0.78 ± 0.03	0.76
	A <sub>280 nm</sub> / A <sub>260 nm</sub> (22 °C, pH 7.0)	0.15 ± 0.02	0.17
<b>HPLC</b>	ATP (C18-RP-UV, 259 nm)	≥ 98.0% (area)	99.6%
	ADP (C18-RP-UV, 259 nm)	≤ 1.0% (area)	0.4%
<b>Functional</b>	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, April 18

  
Sebastian Buegener, Quality Control