



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: Adenosine-5'-triphosphate Disodium Salt Hydrate

Catalog Number: 150266

Lot: 2419J

Formula: $C_{10}H_{14}N_5Na_2O_{13}P_3 \cdot xH_2O$

CAS #: 51963-61-2

Physical Description: White Powder

Formula Weight: 551.20 (anhyd.)

Storage: -0°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥96%	99% (HPLC)
Moisture	Report Result	8%
FTIR	Conforms to Standard	Conforms to Standard
UV/Vis: □ max (water)	258 ± 2 nm	259 nm
OD250/OD259	0.75 - 0.83	0.82
pH (5% aq soln)	Acidic to Litmus Paper	Acidic to Litmus Paper
Solubility (5% aq soln)	Clear to Slightly Hazy Solution	Clear and Colorless

Content by UV (Dry basis): 99%

Dry Substance: 92.0%

Chlorides: <500 ppm

Heavy Metals: <10 ppm

Iron: <10 ppm

Pyrogens: <2mg/kg

Residual Solvent: 239 ppm

Microbic Contamination: <100 CFU/g

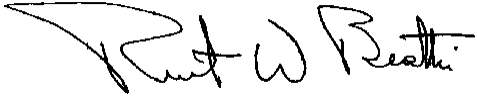
Absorbance Ratios:

---A250/A260 = 0.81

---A280/A260 = 0.21

---A290/A260 = 0.01

pH: 3.0

A handwritten signature in black ink that reads "Robert W. Beattie". The signature is written in a cursive style with a large, sweeping initial "R".

05/24/2006 - Robert Beattie

MP Biomedicals, LLC.

Technical Director

This is an electronically generated document

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<http://www.mpbio.com>

Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)