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Certificate of Analysis

Product Description: Adenosine, free base
Catalog Number: 100199
Lot: M9375**Formula:** $C_{10}H_{13}N_5O_4$ **CAS #:** 58-61-7**Physical Description:** White Powder**Formula Weight:** 267.24**Storage:** -0°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥98%	100.8%
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	228 - 236°C	231.7 - 232.8°C
UV/VIS: λ max (1N HCl)	255 - 260 nm	257 nm
OD250/OD260	0.80 - 0.90	0.86
OD280/OD260	0.17 - 0.24	0.21

Loss on drying: 0.0%

Residue on ignition: 0.0%

Specific rotation: -69.4°

Heavy metals: ≤10 ppm

Acidity or alkalinity: Conforms to USP

Limit of chloride: ≤0.007%

Limit of ammonia: ≤0.0004%

Limit of sulfate: ≤0.02%

Assay (HPLC): Conforms to USP

Adenine: 0.1%

Total impurities: 0.3%

Guanosine: 0.0%

Uridine: 0.0%

Inosine: 0.0%

A handwritten signature in black ink that reads 'Christina Marotta'.

07/11/2014 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

This is an electronically generated document

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