



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: Urea, ultra pure
Catalog Number: 821527B; 809253; 821513; 821514; 821518; 821519; 821527; 821528; 821530; 821531; 821532; 821533;
821534; 821535; 821858
Lot: YC0503

Formula: CH₄N₂O
CAS #: 57-13-6
Physical Description: White Crystalline Powder

Formula Weight: 60.06
Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.6%
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	130 - 140°C	131.29 - 134.31°C
OD260 (7M aq soln)	≤0.05	0.02
OD280 (7M aq soln)	≤0.05	0.012
pH (7M aq soln)	8.5 ± 1.0	9.3
Conductivity	≤100 uMhos	30 uMhos
Copper	≤1 ppm	0 ppm
Lead	≤1 ppm	0.2 ppm
Iron	≤1 ppm	1 ppm
Cyanate	None Detected	None Detected
RNAse	Negative	Negative
DNAse	Negative	Negative
Protease	Negative	Negative

Sulfate (SO₄): ≤0.01%
Ammonia: 0.008%
Sulphate Ash: ≤ 0.1%
Heavy Metal (as Pb): 0.0008%
Ethanol Insoluble Matter: 0.038%
Arsenic: 0.0001%
Loss on drying: ≤1.0%
Recommended Retest Date (MM/DD/YYYY): 03/09/2024

A handwritten signature in black ink, appearing to read 'Fengqi An', is centered on a light gray, textured rectangular background.

05/09/2022 - *Fengqi An*
MP Biomedicals, LLC.
Life Science QC Supervisor

This is an electronically generated document
<mailto:biotech@mpbio.com>
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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)