

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:** CC10003**Formula :** CH₄N₂O**CAS #:** 57-13-6**Physical Description:** White Crystals**Formula Weight:** 60.06**Storage:** 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	>99%	99.2%
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	130 - 140°C	131.4 - 133.6°C
OD260 (7M aq soln)	<0.05	0.027
OD280 (7M aq soln)	<0.05	0.022
pH (7M aq soln)	8.5 ± 1.0	8.36
Conductivity	<100 uMhos	80.5 uMhos
Copper	<1 ppm	0.0812 ppm
Lead	<1 ppm	0.1032 ppm
Iron	<1 ppm	0.0147 ppm
Cyanate	None Detected	None Detected
RNAse	Negative	Negative
DNAse	Negative	Negative
Protease	Negative	Negative

Biuret: 0.18%

Chloride: 0.0002%

Sulfate (SO₄): 0.001%

Ammonia: 0.0047%

Residue on Ignition: 0.008%

Heavy Metal (as Pb): 0.0002%

Water Insoluble Matter: 0.0048%



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Clarity Test: Qualified

EXP(MM/DD/YYYY): 08/31/2024

A handwritten signature in black ink that reads 'Lily Liu'.

10/09/2022 - Lily Liu
MP Biomedicals, LLC.
QM

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