

BIOSPECTRA

100 Majestic Way, Bangor, PA 18013 / www.biospectra.us

Effective Date:	26-Sep-2018	26-Sep-2021	: Date of Next Review
Prepared By:	Jamie Storm	Not Applicable	: Supersedes
QA/QC Approval:	Amy Yenko	Dora Meissner via proxy Crystal Hamelburg	: Management Approval
Reason for Revision:	See Revision History in ensur		

UREA

CERTIFICATE OF ANALYSIS

BIO ACTIVE GRADE / UR2220 – K001

LOT: UR2220-004-1118

NH₂CONH₂ * F.W. 60.06 g/mol. * CAS# 57-13-6

Manufacture Date: 4/16/2018

Retest Date: 4/30/2020

Manufacturing Site: 100 Majestic Way, Bangor PA, 18013

Packaging Date: 11/2/2018 Packaging Site: 100 Majestic Way, Bangor PA, 18013

Meets or Exceeds USP Specifications

ANALYSIS	SPECIFICATION	TEST RESULT
Alcohol Insoluble Matter	0.04% max.	0.0100%
Appearance and Color	White / Crystals	White / Crystals
Assay	98.0-102.0%	99.80%
Enzymes	DNase	None Detected
	RNase	None Detected
	Protease	None Detected
Heavy Metals	10 ppm max.	<10ppm
Identification A (IR)	Passes Test	Passes Test
Identification B	Passes Test	Passes Test
Impurities	Urea RCA	< 0.1%
	Total	< 2.0%
	Unspecified	< 0.1%
Insoluble Matter	0.010% max.	<0.0015%
Loss on Drying	1.0% max.	0.2197%
Melting Range	132-135 °C	133.8 – 135.0 °C
Residue on Ignition	0.010% max.	<0.0075%
Trace Metals	Arsenic (As)	5 ppm max.
	Copper (Cu)	5 ppm max.
	Iron (Fe)	5 ppm max.
	Lead (Pb)	5 ppm max.

COUNTRY OF ORIGIN: U.S.A.TEST METHOD REFERENCE: DCN: 16-000495

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