



Material No.: 4106-01 Batch No.: 0000179244 Manufactured Date: 2017/05/18 Retest Date: 2022/05/17

## Certificate of Analysis

**GMP** Manufactured Product

Test	Specification	Result
Assay (NH₂C(CH₂OH)₃ · HCl)	>= 99.0 %	99.8
Appearance (colorless crystals to white crystalline powder)	Passes Test	РТ
Absorbance of a 1M Solution – 260 nm	<= 0.06	< 0.06
Absorbance of a 1M Solution – 280 nm	<= 0.06	< 0.06
Absorbance of a 1M Solution – 400 nm	<= 0.01	< 0.01
Identification (by IR)	Passes Test	РТ
Loss on Drying at 105°C	<= 0.5 %	0.3
Endotoxin Concentration (EU/g)	<= 2.5	< 1.0
Melting Point	147 – 153 ℃	151
pH of 0.5M Solution at 25°C	3.5 - 5.0	4.2
Trace Impurities – Arsenic (As)	<= 10 ppm	< 1
Trace Impurities – Calcium (Ca)	<= 10 ppm	< 1
Trace Impurities – Copper (Cu)	<= 10 ppm	< 1
Trace Impurities – Iron (Fe)	<= 10 ppm	< 1
Trace Impurities – Lead (Pb)	<= 10 ppm	< 1
Trace Impurities – Magnesium (Mg)	<= 10 ppm	< 1

CAUTION: For Manufacturing, processing or repackaging No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.

Manufactured exclusively for Avantor Performance Materials, LLC., by

BioSpectra, Inc., Stroudsburg, PA

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600 Avantor Performance Materials, LLC.

3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Country of Origin:USPackaging Site:Paris Mfg Ctr & DCManufacturer:P0064001Manufacturer source batch:TH7201-117-0517



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000 Paris, KY 9001:2008 Mexico City, Mexico 9001:2008 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003 Gliwice, Poland 9001:2008, 13485:2012 Selangor, Malaysia 9001:2008 Dehradun, India, 9001:2008, 14001:2004, 13485:2003 Mumbai, India, 9001:2008 Panoli, India 9001:2008

James Techie

Jamie Ethier Vice President Global Quality

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