



Material No.: 9830-02
Batch No.: 0000221093
Manufactured Date: 2019/01/16
Expiration Date: 2021/01/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	>= 99.9 %	100.0
Appearance	Passes Test	PT
Gradient Elution Test (a.u.) – 254 nm	<= 0.01	< 0.01
Fluorescence Trace Impurities, measured as Quinine Base – at 450 nm Emission	<= 0.30 ppb	< 0.10
Fluorescence Trace Impurities, measured as Quinine Base – at Emission Maximum for Impurities	<= 1.0 ppb	0.3
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.7
Water (H ₂ O)	<= 500 ppm	< 50
LC/MS Suitability – Largest Response on ESI– Positive Mode (as Reserpine)	<= 50 ppb	< 50
Trace Impurities – Aluminum (Al)	<= 50 ppb	< 5
Trace Impurities – * Calcium (Ca)	<= 50 ppb	7
Trace Impurities – Iron (Fe)	<= 50 ppb	< 1
Trace Impurities – Lithium (Li)	<= 30 ppb	< 1
Trace Impurities – Magnesium (Mg)	<= 50 ppb	< 1
Trace Impurities – Nickel (Ni)	<= 30 ppb	< 5
Trace Impurities – Potassium (K)	<= 50 ppb	< 10
Trace Impurities – * Sodium (Na)	<= 50 ppb	< 5

For Laboratory, Research or Manufacturing Use

* May change over time due to extraction from glass container.

Filtered through a 0.2 micron filter.

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700