

Material No.: 9830-02 Batch No.: 0000199922

Manufactured Date: 2018/04/25 Expiration Date: 2020/04/24

Revision No: 1

## Certificate of Analysis

Test	Specification	Result
Assay (CH3OH) (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	0.5
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.4
Water (H₂O)	<= 500 ppm	< 500
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	4
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

Filtered through a 0.2 micron filter.

<sup>\*</sup> May change over time due to extraction from glass container.

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Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC



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

Jamie Ethier
Vice President Global Quality

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