

Material No: 9821.2500GL Batch No: 2333901813 Manufactured Date: 2023/12/05 Expiration Date: 2026/12/05

## Certificate of Analysis

Test	Specification	Result
Assay (by GC)	>= 99.9 %	100.0
Residue after Evaporation	<= 1 ppm	< 1
Water (H2O)	<= 0.01 %	< 0.01
LC-Gradient-Diode Array Detection (AU), test solution is modified with 0.1% (v/v) formic acid: at 220 nm	<= 0.002	< 0.002
at 254 nm	<= 0.001	< 0.001
LC-MS Gradient Suitability Test (TIC, 100 to 2000 m/z), test solution is modified with 0.1% (v/v) formic acid: Positive ESI-MS Sensitive Impurities (as Reserpine)	<= 50 ng/ml	< 50
Trace Impurities (in ppb)		
Aluminium (Al)	<= 50	< 50
Calcium (Ca)	<= 50	< 50
Iron (Fe)	<= 50	< 50
Magnesium (Mg)	<= 50	< 50
Potassium (K)	<= 50	< 50
Sodium (Na)	<= 50	< 50
Ultraviolet Absorbance (1.00-cm path vs water):		
at 200 nm	<= 0.05	< 0.01
at 220 nm	<= 0.01	< 0.01
at 254 nm	<= 0.01	< 0.01

For questions on this Certificate of Analysis, please contact Customer Service at avantor.emea@avantorinc.com The information in this document is property of Avantor Performance Materials Poland S.A. Avantor Performance Materials Poland S.A. Sowińskiego 11 Gliwice 44-101 Poland Tel:+48 322392000

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For Laboratory, Research or Manufacturing use.For Use in Liquid Chromatography and Mass SpectrometryElement concentrations are at time of lot release.Country of Origin:POLANDPackaging Site:Gliwice Mfg & DC

James Techie Jamie Ethier

Vice President Global Quality

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