

Material No: 9821.1000GL
Batch No: 2312805853
Manufactured Date: 2023/05/08
Expiration Date: 2026/05/08

Certificate of Analysis

Test	Specification	Result
Assay (by GC)	$\geq 99.9\%$	100.0
Residue after Evaporation	≤ 1 ppm	< 1
Water (H ₂ O)	$\leq 0.01\%$	0.003
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	< 0.05
at 220 nm	≤ 0.01	< 0.01
at 254 nm	≤ 0.01	< 0.01

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For Laboratory, Research or Manufacturing use.
For Use in Liquid Chromatography and Mass Spectrometry
Element concentrations are at time of lot release.

Country of Origin: UNITED STATES
Packaging Site: Gliwice Mfg & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis, please contact Customer Service at avantor.emea@avantorinc.com
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