

Material No: 9012.2500GL
Batch No: 2408905850
Manufactured Date: 2024/03/29
Expiration Date: 2027/03/29

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|------------|
| Assay (by GC) | $\geq 99.9\%$ | 100.0 |
| Residue after Evaporation | ≤ 3 ppm | < 3 |
| Titration Acid (meq/g) | ≤ 0.0008 | < 0.0008 |
| Titration Base (meq/g) | ≤ 0.0006 | < 0.0006 |
| Water (H ₂ O) | $\leq 0.02\%$ | < 0.01 |
| Fluorescence Trace Impurities (as quinine base), ppb: at Emission Maximum for Impurities | ≤ 1.0 | < 1.0 |
| Measured at 450 nm | ≤ 0.3 | < 0.3 |
| Gradient Elution Test (PAH Suitability test) Ultraviolet Absorbance (a.u.) at 254 nm | ≤ 0.001 | < 0.001 |
| Ultraviolet Absorbance (1.00-cm path vs water): at 200 nm | ≤ 0.10 | 0.02 |
| at 210 nm | ≤ 0.05 | 0.02 |
| at 220 nm | ≤ 0.03 | 0.01 |
| at 254 nm | ≤ 0.01 | < 0.01 |
| at 280 nm | ≤ 0.01 | < 0.01 |
| at 350 nm | ≤ 0.01 | < 0.01 |
| at 400 nm | ≤ 0.01 | < 0.01 |
| UV Cut-off, nm | ≤ 190 | 190 |

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For Laboratory, Research or Manufacturing use.
For use in High Performance Liquid Chromatography.
Filtered through a 0.2 micron filter.Packaged under Nitrogen.

Country of Origin: POLAND

Packaging Site: Gliwice Mfg & DC



Barbara Rykowska
Quality Assurance Coordinator

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