ION BIOSCIENCES

Certificate of Analysis

IPG-2 TMA$^+$ Salt

Lot 10713a

Method	Specification	Analysis
LCMS	**Agilent 1220 Infinity II**	
Purity[1]	≥ 90%	93.1%
Molecular Ion[2]	*Common Peaks* 911.3 ± 0.5 m/z $[M+H]^+$ 456.2 ± 0.5 m/z $[M+2H]^{2+}$	*Detected Peaks* 911.5 m/z 456.4 m/z
Absorbance Spectrum	**Agilent Cary 60 UV-VIS Spectrophotometer**	
UV-Visible λ_{max} [3]	517 ± 3 nm	518 nm
Fluorescence Spectrum	**Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer**	
Excitation λ_{max} [3] Emission λ_{max}	517 ± 3 nm 540 ± 3 nm	517 nm 541 nm
^{1}H NMR Spectrum	**Bruker Avance 400**	
Peaks and Integrations	Conforms to Structure	Conforms
In Vitro Assay	**BioTek Cytation 5 Imaging Reader**	
$F_{Stimulus}$ / $F_{Control}$ in a relevant biological buffer solution	To Pass Test	Passes

[1]Column: Phenomenex 00D-4251-E0 Luna C_{18}, 4.6 x 100 mm, 3 µm , UV-Vis Diode Array Detector: 254 nm; [2]Single Quad MS Detector: ESI Positive; [3]Solvent: High Potassium Buffer (140 mM KCl, 10 mM MOPS, pH 7.2)

David Woody
Quality Manager 3 Apr 2025