

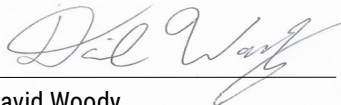


Fluo-4 K⁺ Salt

Lot 10616a

Method	Specification	Analysis
LCMS	Agilent 1220 Infinity II	
Purity ¹	≥ 90%	92.9%
Molecular Ion ² (Acid Form)	<i>Common Peaks</i> 737.18 ± 0.5 m/z [MH] ⁺ 369.10 ± 0.5 m/z [MH ₂] ²⁺	<i>Detected Peaks</i> 737.40 m/z 369.30 m/z
Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer	
UV-Visible λ _{max} ³	494 ± 3 nm	495 nm
Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer	
Excitation λ _{max} ³ Emission λ _{max}	494 ± 3 nm 517 ± 3 nm	492 nm 517 nm
¹H NMR Spectrum	Bruker Avance 400	
Peaks and Integrations	Conforms to Structure	Conforms
In Vitro Assay	BioTek Cytation 5 Imaging Reader	
F _{Stim} / F _{Ctrl} in relevant buffer solution assay	79.6 - 97.3 in Medium Ca ²⁺ Buffer ⁴ 263.4 - 336.4 in High Ca ²⁺ Buffer ³	92.4 268.8

¹Column: Phenomenex 00d-4251-E0 Luna C₁₈, 4.6 x 100 mm, 3 μm, UV-Vis Diode Array Detector: 254 nm; ²Single Quad MS Detector: ESI Positive; ³Solvent: 10 mM CaEGTA, 100 mM KCl, 10mM MOPS, pH 7.2; ⁴Solvent: 5 mM CaEGTA, 5 mM K₂EGTA, 100 mM KCl, 10 mM MOPS, pH 7.2



David Woody

Quality Manager

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