



Fura-2 LR K⁺ Salt

Lot 10615a

Method	Specification	Analysis
LCMS	Agilent 1220 Infinity II	
Purity*	≥ 90%	92.2%
Molecular Ion (Acid Form)	<i>Common Peaks</i> 700.4 ± 0.5 m/z (MH ⁺) 722.1 ± 0.5 m/z (MNa ⁺) 350.6 ± 0.5 m/z (MH ₂ ²⁺)	<i>Detected Peaks</i> 700.4 m/z <i>Not Detected</i> 350.9 m/z
Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer	
Longest-Wavelength Absorbance Maximum**	336 ± 3 nm	336
Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer	
Excitation Max.; Emission Max.**	336 ± 3 nm; 499 ± 3 nm	336 nm; 499 nm
¹H NMR Spectrum	Bruker Avance 400	
Peaks and Integrations	Only relevant product peaks — with appropriate chemical shifts and peak integrations — and solvent peaks present	Confirmed
In Vitro Assay	BioTek Cytation 5 Imaging Reader	
F _{medium} /F ₀ ; F _{high} /F ₀ in relevant buffer solution assay	4.1 ± 0.4; ≥ 19.57	4.28; 34.26

*Column: Agilent Infinity Lab Poroshell 120 ECC18, 3.0 x 50 mm, 2.7 μm C₁₈, UV-Vis Diode Array Detector: 254 nm, Single Quad MS Detector: ESI Positive; **solvent: 10 mM CaCl₂, 140 mM KCl, 10 mM MOPS, 10 mM EGTA pH 7.2



Andrew Vergote 23 May 2024
Quality Manager