



Fura-2 K⁺ Salt

Lot 10616a

Method	Specification	Analysis
LCMS	Agilent 1220 Infinity II	
Purity*	≥ 90%	93.6 %
Molecular Ion	<i>Common Peaks</i> 642.30 ± 0.5 m/z (MH ⁺) 664.30 ± 0.5 m/z (MNa ⁺) 321.58 ± 0.5 m/z (MH ₂ ²⁺)	<i>Detected Peaks</i> 642.5 m/z <i>Not Detected</i> 321.8 m/z
Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer	
Longest-Wavelength Absorbance Maximum	338 ± 3 nm** 363 ± 3 nm***	337 nm 363 nm
Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer	
Excitation Max.; Emission Max.	336 ± 3 nm; 499 ± 3 nm** 363 ± 3 nm; 508 ± 3 nm***	337 nm; 499 nm 363 nm; 508 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
Cell Assay	BioTek Cytation 5 Imaging Reader	
F _{medium} /F ₀ ; F _{high} /F ₀ in relevant buffer solution assay	4.05 ± 0.32; ≥ 33.5	4.31; 36.6

*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 ***solvent: 140 mM KCl, 10 mM MOPS, 10 mM EGTA, pH 7.2



Andrew Vergote 26 Jul 2024
 Quality Manager