



Fluo-3 AM

Lot 10614a

Method	Specification	Analysis
LCMS	Agilent 1220 Infinity II	
Purity*	≥ 95%	96.7%
Molecular Ion	<i>Common Peaks</i> 1129.23 ± 0.5 m/z (MH ⁺) 1151.21 ± 0.5 m/z (MNa ⁺) 565.12 ± 0.5 m/z (MH ₂ ²⁺)	<i>Detected Peaks</i> 1129.6 m/z 1151.6 m/z 565.3 m/z
Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer	
Longest-Wavelength Absorbance Maximum**	505 ± 3 nm	507nm
Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer	
Excitation Max.; Emission Max.**	506 ± 3 nm; 526 ± 3 nm	504 nm; 523 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/F ₀ post-stimulus in relevant biological assay	≥ 2.79	3.41

*Column: Agilent Infinity Phenomex 00d-4251-E0 4.6 x 100 mm. 100 angstrom, 3 μm Luna C₁₈ (2), 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, AM esters hydrolyzed to ion-sensing salt form prior to acquiring spectral data.



Andrew Vergote 30 May 2024
 Quality Manager