Certificate of Analysis

Fluo-4 K^+ Salt

Lot 10212a

Method	Specification	Analysis
LCMS	**Agilent 1220 Infinity II**	
Purity*	≥ 90%	93.7%
Molecular Ion (Acid Form)	*Common Peaks* 737.18 ± 0.5 m/z (MH^+) 759.16 ± 0.5 m/z (MNa^+) 369.10 ± 0.5 m/z (MH_2^{2+})	*Detected Peaks* 737.50 m/z 759.40 m/z 369.40 m/z
Absorbance Spectrum	**Agilent Cary 60 UV-VIS Spectrophotometer**	
Longest-Wavelength Absorbance Maximum**	494 ± 3 nm	491
Fluorescence Spectrum	**Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer**	
Excitation Max.; Emission Max.***	494 ± 3 nm; 517 ± 3 nm	495 nm; 518 nm
^{1}H 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_{Stim} / F_{Ctrl} in relevant buffer solution assay	≥ 263.4	316.9

*Column: Agilent Infinity Lab Poroshell 120 EC-C18, 3.0 x 150 mm, 2.7 µm, UV-Vis Diode Array Detector: 254 nm, Single Quad MS Detector: ESI Positive; **solvent: MeOH, ***solvent: High-Calcium Buffer

Approved by P. Rogelio Escamilla Dec 2019

Reanalyzed Apr 2022