



## Fluo-2 K<sup>+</sup> Salt Lot 10520a

Method	Specification	Analysis
<b>LCMS</b>	<b>Agilent 1220 Infinity II</b>	
Purity*	≥ 90%	91.8%
Molecular Ion (Acid Form)	<i>Common Peaks</i> 701.2 ± 0.5 m/z (MH <sup>+</sup> ) 723.18 ± 0.5 m/z (MNa <sup>+</sup> ) 351.11 ± 0.5 m/z (MH <sub>2</sub> <sup>2+</sup> )	<i>Detected Peaks</i> 701.40 m/z No detected 351.4 m/z
<b>Absorbance Spectrum</b>	<b>Agilent Cary 60 UV-VIS Spectrophotometer</b>	
Longest-Wavelength Absorbance Maximum**	495 ± 3 nm	495
<b>Fluorescence Spectrum</b>	<b>Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer</b>	
Excitation Max.; Emission Max.**	493 ± 3 nm; 515 ± 3 nm	492.5 nm; 515nm
<b><sup>1</sup>H NMR Spectrum</b>	<b>Bruker Avance 400</b>	
Peaks and Integrations	Only relevant product peaks — with appropriate chemical shifts and peak integrations — and solvent peaks present	Confirmed
<b>In Vitro Assay</b>	<b>BioTek Cytation 5 Imaging Reader</b>	
F <sub>Stim</sub> / F <sub>Ctrl</sub> in relevant buffer solution assay	≥ 260.6	269.7

\*Column: Agilent Infinity Phenomex 00d-4251-E0, 4.6 x 100 mm, 100 angstrom, 3 micron, Luna C<sub>18</sub>, UV-Vis Diode Array Detector: 254 nm, Single Quad MS Detector: ESI Positive; \*\*solvent: High-Calcium Buffer

Approved by P. Rogelio Escamilla Nov 2023