

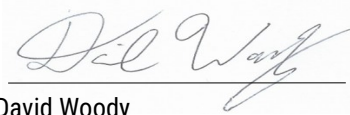


## Fluo-4 AM

Lot 10720a

Method	Specification	Analysis
<b>LCMS</b>	<b>Agilent 1220 Infinity II</b>	
Purity <sup>1</sup>	≥ 95%	97.9 %
Molecular Ion <sup>2</sup>	<i>Common Peaks</i> 1097.3 ± 0.5 m/z [M+H] <sup>+</sup> 549.2 ± 0.5 m/z [M+2H] <sup>2+</sup>	<i>Detected Peaks</i> 1097.6 m/z 549.4 m/z
<b>Absorbance Spectrum</b>	<b>Agilent Cary 60 UV-VIS Spectrophotometer</b>	
UV-Visible λ <sub>max</sub> <sup>3</sup>	494 ± 3 nm	494 nm
<b>Fluorescence Spectrum</b>	<b>Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer</b>	
Excitation λ <sub>max</sub> <sup>3</sup> Emission λ <sub>max</sub>	494 ± 3 nm 516 ± 3 nm	494 nm 516 nm
<b><sup>1</sup>H NMR Spectrum</b>	<b>Bruker Avance 400</b>	
Peaks and Integrations	Conforms to Structure	Conforms
<b>Cell Assay</b>	<b>FlexStation 3 Multi-Mode Microplate Reader and BioTek Cytation 5 Multimode Imaging Plate Reader</b>	
F/F <sub>0</sub> post-stimulus in relevant biological assay	To Pass Test	Passes
Imaging Analysis	Observed fluorescence is intracellular with minimal extracellular fluorescence	Passes

<sup>1</sup>Column: Phenomenex 00d-4251-E0 Luna C<sub>18</sub>, 4.6 x 100 mm, 100Å, 3 μm, UV-Vis Diode Array Detector: 254 nm; <sup>2</sup>Single Quad MS Detector: ESI Positive; <sup>3</sup>Solvent: 10 mM CaEGTA, 100 mM KCl, 10mM MOPS, pH 7.2, AM esters hydrolyzed to ion-sensing salt form prior to acquiring spectral data



David Woody

Quality Manager

10 Nov 2025