

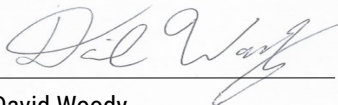


## Calcein AM

Lot 10622a

Method	Specification	Analysis
<b>LCMS</b>	<b>Agilent 1220 Infinity II</b>	
Purity <sup>1</sup>	≥ 95.0%	99.0 %
Molecular Ion <sup>2</sup>	995.3 ± 0.5 m/z [M+H] <sup>+</sup> 498.5 ± 0.5 m/z [M+2H] <sup>2+</sup>	995.6 m/z 498.5 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	493 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 514 ± 3 nm	492 nm 513 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>BioTek Cytation 5 Imaging Reader</b>	
Signal to Background Ratio <sup>4</sup>	≥ 10	99
Imaging Analysis <sup>4</sup>	Observed fluorescence is intracellular, with minimal extracellular fluorescence	Conforms

<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: PBS, AM esters hydrolyzed to ion-sensing salt form and then adjusted to and or measured at pH 7.2 prior to acquiring spectral data; <sup>4</sup>Solvent: PBS, λ<sub>max</sub> Ex/Em: 495/515 nm



David Woody

Quality Manager

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