

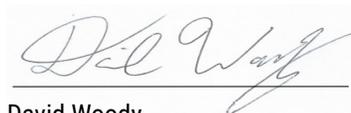


Calcein AM

Lot 10719a

Method	Specification	Analysis
LCMS	Agilent 1220 Infinity II	
Purity ¹	≥ 95.0%	97.4 %
Molecular Ion ²	995.3 ± 0.5 m/z [M+H] ⁺ 498.5 ± 0.5 m/z [M+2H] ²⁺	995.6 m/z 498.4 m/z
Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer	
UV-Visible λ _{max} ³	494 ± 3 nm	493 nm
Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer	
Excitation λ _{max} ³ Emission λ _{max}	494 ± 3 nm 514 ± 3 nm	492 nm 515 nm
¹H NMR Spectrum	Bruker Avance 400	
Peaks and Integrations	Conforms to Structure	Conforms
Cell Assay	BioTek Cytation 5 Imaging Reader	
Signal to Background Ratio ⁴	To Pass Test	Passes
Imaging Analysis ⁴	Observed fluorescence is intracellular, with minimal extracellular fluorescence	Passes

¹Column: Phenomenex 00D-4251-E0 Luna C₁₈, 4.6 x 100 mm, 100Å, 3 μm, UV-Vis Diode Array Detector: 254 nm; ²Single Quad MS Detector: ESI Positive; ³Solvent: 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; ⁴Solvent: PBS, λ_{max} Ex/Em: 495/515 nm



David Woody

Quality Manager

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