

Calcein AM

Lot 10615a

| Method | Specification | Analysis |
|---|---|--|
| LCMS | Agilent 1220 Infinity II | |
| Purity* | ≥ 95% | 97.7% |
| Molecular Ion | <i>Common Peaks</i> 995.26 ± 0.5 m/z (MH ⁺) 1017.02 ± 0.5 m/z (MNa ⁺) 498.5 ± 0.5 m/z (MH ₂ ²⁺) | <i>Detected Peaks</i> 995.5 m/z <i>Not Detected</i> 498.4 m/z |
| Absorbance Spectrum | Agilent Cary 60 UV-VIS Spectrophotometer | |
| Longest-Wavelength Absorbance Maximum** | 500 ± 3 nm | 500 nm |
| Fluorescence Spectrum | Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer | |
| Excitation Max.; Emission Max.** | 491 ± 3 nm; 513 ± 3 nm | 491 nm; 513 nm |
| ¹H NMR Spectrum | Bruker Avance 400 | |
| Peaks and Integrations | Only relevant product peaks — with appropriate chemical shifts and peak integrations — and solvent peaks present | Confirmed |
| Cell Assay | BioTek Cytation 5 Imaging Reader | |
| F _{Signal} / background in relevant biological assay | > 10 | 91 |

*Column: Agilent Infinity Lab Poroshell 120 ECC18, 3.0 x 50 mm, 2.7 μm C₁₈, UV-Vis Diode Array Detector: 254 nm, Single Quad MS Detector: ESI Positive; **solvent: Phosphate Buffered Saline PBS pH 7.4



Andrew Vergote
 Quality Manager

28 May 2024