ION BIOSCIENCES

Certificate of Analysis

Fluo-3 AM

Lot 10319a

Method	Specification	Analysis
LCMS	**Agilent 1220 Infinity II**	
Purity*	≥ 95%	95.2%
Molecular Ion	*Common Peaks* 1129.23 ± 0.5 m/z (MH^+) 1151.21 ± 0.5 m/z (MNa^+) 565.12 ± 0.5 m/z (MH_2^{2+})	*Detected Peaks* 1129.6 m/z 1151.5 m/z Not Detected
Absorbance Spectrum	**Agilent Cary 60 UV-VIS Spectrophotometer**	
Longest-Wavelength Absorbance Maximum**	505 ± 3 nm	505 nm
Fluorescence Spectrum	**Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer**	
Excitation Max.; Emission Max.**	506 ± 3 nm; 526 ± 3 nm	506 nm; 526 nm
^{1}H 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/F_0 post-stimulus in relevant biological assay	≥ 2.79	3.83

*Column: Agilent Infinity Lab Poroshell 120 ECC18, 3.0 x 50 mm, 2.7 µm C_{18}, UV-Vis Diode Array Detector: 254 nm, Single Quad MS Detector: ESI Positive; **solvent: High-Calcium Buffer, AM esters hydrolyzed to ion-sensing salt form prior to acquiring spectral data

Approved by P. Rogelio Escamilla Sep 2019