

## ION Vital: Viability

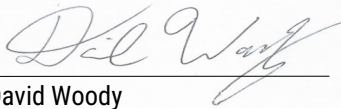
Lot 10619b

Method	Specification	Analysis
<b>Absorbance (Ethidium 2 mM)</b>	<b>BioTek Cytation 5 Imaging Reader</b>	
Absorbance <sup>1</sup> @ 495 nm	0.57 ± 0.086	0.55
<b>Absorbance (Calcein 4 mM)</b>	<b>BioTek Cytation 5 Imaging Reader</b>	
Absorbance <sup>2</sup> @ 284 nm	0.98 ± 0.1	0.99
<b>Cell Assay</b>	<b>BioTek Cytation 5 Imaging Reader</b>	
Signal/Background Ratio		
Ethidium 2 mM Solution <sup>3</sup>	≥ 7	8
Calcein 4 mM Solution <sup>4</sup>	≥ 10	110
Imaging Analysis	Observed fluorescence is intracellular, with minimal extracellular fluorescence	Conforms

<sup>1</sup>Solvent: DMSO:H<sub>2</sub>O 1:3 ratio; <sup>2</sup>Solvent: DMSO; <sup>3</sup>Solvent: PBS, CHO cells treated with 0.1% Saponin, λ<sub>max</sub> Ex/Em: 586/647;

<sup>4</sup>Solvent: PBS, λ<sub>max</sub> Ex/Em: 495/515 nm

Kit Components: Ethidium Homodimer I 2 mM in DMSO/H<sub>2</sub>O (Lot 10618a), Calcein AM 4 mM in DMSO (Lot 10618a)



David Woody

Quality Manager

30 Sep 2024