

Catalog Number Z25002  
Product Name Zenon® Alexa Fluor® 488 Mouse IgG<sub>1</sub> Labeling Kit \*50 labelings\*  
Lot Number 2123541

	LOT DATA	SPECIFICATION
<b>ABSORPTION</b> <sup>1</sup> Maximum Degree of Labeling <sup>2</sup>	495 nm 5	495 ± 5 nm 2 – 6
<b>ACTIVITY TEST</b> <sup>1</sup> HPLC <sup>3</sup>	meets specification	formation of complex with isotype-specific mouse IgG
<b>FLOW CYTOMETRY</b> <sup>1</sup> Two Parameter Dot Plot	meets specification	good separation of cells labeled with this product from unlabeled cells
<b>FLUORESCENCE</b> <sup>1</sup> Emission Maximum Relative Quantum Yield <sup>4</sup>	518 nm 0.6	518 ± 5 nm ≥ 0.5
<b>PURITY</b> <sup>1</sup> HPLC <sup>3</sup> TLC <sup>5</sup>	meets specification meets specification	≥90% negligible or no free dye detected

1. For Component A alone
2. Moles of dye per mole of protein, determined using an  $\epsilon$  of  $71,000 \text{ cm}^{-1}\text{M}^{-1}$  at the absorption maximum.
3. HPLC performed using a Biosep S-3000 column.
4. Quantum yield determined relative to fluorescein at pH 8.0.
5. Solvent: 80% acetonitrile/20% water.



Rachel Smith, Quality Assurance Manager  
06-Jun-2019

Life Technologies Corporation, on behalf of its Invitrogen business, Molecular Probes® labeling and detection technologies, certifies on the date above that this is an accurate record of the analysis of the subject lot and that the data conform to the specifications in effect for this product at the time of analysis.