

**Catalog Number** Z25013  
**Product Name** Zenon® Alexa Fluor® 405 Mouse IgG<sub>1</sub> Labeling Kit \*50 labelings\*  
**Lot Number** 2167229

	LOT DATA	SPECIFICATION
<b>ABSORPTION<sup>1</sup></b> Maximum Degree of Labeling <sup>2</sup>	401 nm 1	403 ± 5 nm 1 – 2
<b>ACTIVITY TEST<sup>1</sup></b> HPLC <sup>3</sup>	meets specification	formation of complex with isotype-specific mouse IgG
<b>FLOW CYTOMETRY<sup>1</sup></b> Two Parameter Dot Plot	meets specification	good separation of cells labeled with this product from unlabeled cells
<b>FLUORESCENCE<sup>1</sup></b> Emission Maximum Relative Quantum Yield <sup>4</sup>	422 nm 0.8	421 ± 5 nm ≥ 0.5
<b>PURITY<sup>1</sup></b> 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  $34,600 \text{ cm}^{-1}\text{M}^{-1}$  at the absorption maximum

3. HPLC performed using a Biosep S-3000 column

4. Quantum yield determined relative to 8-methoxypyrene-1,3,6-trisulfonic acid, trisodium salt

5. Solvent: 80% acetonitrile/20% water



Rachel Smith, Quality Assurance Manager  
 7-Jan-2020

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.