

Catalog Number Z25013
Product Name Zenon® Alexa Fluor® 405 Mouse IgG₁ Labeling Kit *50 labelings*
Lot Number 2272613

	LOT DATA	SPECIFICATION
ABSORPTION¹ Maximum Degree of Labeling ²	401 nm 1	403 ± 5 nm 1 – 2
ACTIVITY TEST¹ HPLC ³	meets specification	formation of complex with isotype-specific mouse IgG
FLOW CYTOMETRY¹ Two Parameter Dot Plot	meets specification	good separation of cells labeled with this product from unlabeled cells
FLUORESCENCE¹ Emission Maximum Relative Quantum Yield ⁴	422 nm 0.8	421 ± 5 nm ≥ 0.5
PURITY¹ HPLC ³ TLC ⁵	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 ϵ 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
 21-Oct-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.