

Catalog Number Z25013
Product Name Zenon® Alexa Fluor® 405 Mouse IgG₁ Labeling Kit *50 labelings*
Lot Number 2077792

	LOT DATA	SPECIFICATION
ABSORPTION ¹ Maximum Degree of Labeling ²	401 nm 2	403 ± 5 nm 1 – 2
ACTIVITY TEST ¹ HPLC ³	meets specification	formation of complex with isotype-specific mouse IgG
FLOW CYTOMETRY ¹ Two Parameter Dot Plot	meets specification	good separation of cells labeled with this product from unlabeled cells
FLUORESCENCE ¹ Emission Maximum Relative Quantum Yield ⁴	422 nm 0.9	421 ± 5 nm ≥ 0.5
PURITY ¹ 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
17-Jan-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.