ThermoFisher
SCIENTIFIC

Life Technologies   CERTIFICATE OF ANALYSIS

Catalog Number   Z25408
Product Name   Zenon® Alexa Fluor® 647 Human IgG Labeling Kit *50 labelings*
Lot Number   2447882

	LOT DATA	SPECIFICATION
ABSORPTION[1]		
Maximum	651 nm	653 ± 5 nm
Degree of Labeling[2]	4	2 – 4
FLUORESCENCE[1]		
Emission Maximum	668 nm	667 ± 5 nm
Relative Quantum Yield[3]	0.6	≥ 0.4
MICROSCOPY[1]		
Immunocytochemistry[4]	meets specification	good nuclear staining, negligible background
PURITY[1]		
HPLC[5]	meets specification	≥90%
TLC[6]	meets specification	negligible or no free dye detected

1. For Component A alone

2. Moles of dye per mole of protein, determined using an ε of 239,000 $cm^{-1}M^{-1}$ at the absorption maximum

3. Quantum yield determined relative to 7-hydroxy-9H-(1,3-dichloro-9,9-dimethylacridin-2-one) (DDAO)

4. Staining of HEp2 cells by human anti-nuclear antibody complex to this product

5. HPLC performed using a Biosep S-3000 column

6. Solvent: 80% acetonitrile/20% water

Rachel Smith, Quality Assurance Manager
11-Mar-2022

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.