

Catalog Number S21374
Product Name streptavidin, Alexa Fluor® 647 conjugate
Appearance blue solid
Lot Number 2329429

Small variation in color is possible, but should not affect product performance.

	LOT DATA	SPECIFICATION
ABSORPTION		
Maximum	652 nm	654 ± 5 nm
Degree of Labeling ¹	3	2 – 4
FLUORESCENCE		
Emission Maximum	670 nm	669 ± 5 nm
Relative Quantum Yield ²	1.6	≥ 1.0
MICROSCOPY		
Immunocytochemistry ³	meets specification	good staining, negligible background
PURITY⁴		
TLC	meets specification	negligible or no free dye detected

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

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

3. Cell staining performed using a primary antibody specific for cell type and isotype, and this product

4. Solvent: 80% acetonitrile/20% water



Rachel Smith, Quality Assurance Manager
 21-May-2021

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.