MOLECULAR PROBES®

CERTIFICATE OF ANALYSIS

Catalog Number	D22914
Product Name	dextran, Alexa Fluor® 647; 10,000 MW, anionic, fixable
Appearance	blue solid
Lot Number	2088149

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

	LOT DATA	SPECIFICATION
ABSORPTION		
Maximum	650 nm	650 ± 5 nm
Degree of Labeling[1]	1	1 – 2
ASSAY		
Lysine Determination[2]	4	≥ 1
FLUORESCENCE		
Emission Maximum	666 nm	667 ± 5 nm
Relative Quantum Yield[3]	0.6	≥ 0.4
PURITY[4]		
TLC	meets specification	negligible or no free dye detected

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

2. Moles of lysines per mole of dextran.

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

4. Solvent: 80% acetonitrile/20% water.

Rachel Smith, Quality Assurance Manager
13-Apr-2018

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.

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