

**Catalog Number** D1820  
**Product Name** dextran, fluorescein, 10,000 MW, anionic, lysine fixable (fluoro-emerald)  
**CAS Number / Name** 60842-46-8 / Spiro(isobenzofuran-1(3H),9'-(9H)xanthene), dextran derivative  
**Appearance** orange solid  
**Lot Number** 1915849

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

	LOT DATA	SPECIFICATION
<b>ABSORPTION</b>		
Maximum	496 nm	496 ± 5 nm
Degree of Labeling <sup>1</sup>	1	1 – 2
<b>ASSAY</b>		
Lysine Determination <sup>2</sup>	7	≥ 2
<b>FLUORESCENCE</b>		
Emission Maximum	521 nm	522 ± 5 nm
Relative Quantum Yield <sup>3</sup>	0.5	≥ 0.1
<b>PURITY<sup>4</sup></b>		
TLC	meets specification	negligible or no free dye detected

1. Moles of dye per mole of dextran, determined using an  $\epsilon$  of  $68,000 \text{ cm}^{-1}\text{M}^{-1}$  at the absorption maximum.

2. Moles of lysines per mole of dextran.

3. Quantum yield determined relative to fluorescein at pH 8.0.

4. Solvent: 70% chloroform/25% methanol/5% acetic acid.



Rachel Smith, Quality Assurance Manager

18-Jan-2017

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.