

**Catalog Number** D7137  
**Product Name** dextran, fluorescein, 2,000,000 MW, anionic, lysine fixable  
**Appearance** orange solid  
**Lot Number** 2326012

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

|                                     | LOT DATA            | SPECIFICATION                      |
|-------------------------------------|---------------------|------------------------------------|
| <b>ABSORPTION</b>                   |                     |                                    |
| Maximum                             | 499 nm              | 495 ± 5 nm                         |
| Degree of Labeling <sup>1</sup>     | 102                 | 90 – 140                           |
| <b>ASSAY</b>                        |                     |                                    |
| Lysine Determination <sup>2</sup>   | 483                 | ≥ 150                              |
| <b>FLUORESCENCE</b>                 |                     |                                    |
| Emission Maximum                    | 526 nm              | 524 ± 5 nm                         |
| Relative Quantum Yield <sup>3</sup> | 0.4                 | ≥ 0.4                              |
| <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 cm<sup>-1</sup>M<sup>-1</sup> 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  
 27-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.