

**Catalog Number** D1817  
**Product Name** dextran, tetramethylrhodamine, 10,000 MW, lysine fixable (fluoro-ruby)  
**Appearance** purple solid  
**Lot Number** 2544422

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

	LOT DATA	SPECIFICATION
<b>ABSORPTION<sup>1</sup></b> Maximum	560 nm	563 ± 5 nm
Degree of Labeling <sup>2</sup>	3	2 – 4
<b>ASSAY</b> Lysine Determination <sup>3</sup>	2	≥ 1
<b>FLUORESCENCE<sup>1</sup></b> Emission Maximum	584 nm	585 ± 5 nm
Relative Quantum Yield <sup>4</sup>	0.5	≥ 0.3
<b>PURITY<sup>5</sup></b> TLC	meets specification	negligible or no free dye detected

1. Buffer: 8 M guanidine HCl. Preferred new buffer for accurate assessment of tetramethylrhodamine conjugates.

2. Moles of dye per mole of dextran, determined using an  $\epsilon$  of 65,000  $\text{cm}^{-1}\text{M}^{-1}$  at the absorption maximum

3. Moles of lysines per mole of dextran

4. Quantum yield determined relative to 5-(and-6)-carboxytetramethylrhodamine

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



Zach Luedtke, Quality Assurance Manager  
2-Mar-2022

Life Technologies Corporation 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.