

Catalog Number D1817
Product Name dextran, tetramethylrhodamine, 10,000 MW, lysine fixable (fluoro-ruby)
Appearance purple solid
Lot Number 2298165

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

	LOT DATA	SPECIFICATION
ABSORPTION¹ Maximum	560 nm	563 ± 5 nm
Degree of Labeling ²	2	2 – 4
ASSAY Lysine Determination ³	2	≥ 1
FLUORESCENCE¹ Emission Maximum	588 nm	585 ± 5 nm
Relative Quantum Yield ⁴	0.6	≥ 0.3
PURITY⁵ 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 ϵ 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



Rachel Smith, Quality Assurance Manager
 10-Jun-2020

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.