

**Catalog Number** C1171  
**Product Name** 5-(and-6)-carboxytetramethylrhodamine, succinimidyl ester (5(6)-TAMRA, SE) \*mixed isomers\*  
**CAS Number / Name** 246256-50-8 / Xanthylium, 9-[2-carboxy-4(or 5)-[[[2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]phenyl]-3,6-bis(dimethylamino)-, inner salt  
**Molecular Formula** C<sub>29</sub>H<sub>25</sub>N<sub>3</sub>O<sub>7</sub>  
**Molecular Weight** 527.53  
**Appearance** purple solid  
**Lot Number** 1298287

	LOT DATA	SPECIFICATION
<b>Absorption</b> <sup>1</sup> Maximum Extinction	547 nm 85000 cm <sup>-1</sup> M <sup>-1</sup>	547 ± 3 nm 92000 ± 8000 cm <sup>-1</sup> M <sup>-1</sup>
<b>Fluorescence</b> <sup>1</sup> Emission Maximum	576 nm	576 ± 4 nm
<b>HPLC</b> <sup>2</sup> Purity	99 % at 254 nm	≥ 90 % at 254 nm
<b>NMR</b> Result	meets specification	consistent with structure
<b>Miscellaneous Information</b> Material Lot Number	1173201	N/A

1. Solvent: Methanol.

2. Method: Derivatized with n-butylamine. Purity value represents total reactive dye content.

*Betty Wood*

Betty Wood, Quality Assurance Manager

26-Jun-2012

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.