

Catalog Number F143
Product Name fluorescein-5-isothiocyanate (FITC 'Isomer I')
CAS Number / Name 3326-32-7 / Spiro(isobenzofuran-1(3H),9'-(9H)xanthen)-3-one, 3',6'-dihydroxy-5-isothiocyanato-
Molecular Formula C₂₁H₁₁NO₅S
Molecular Weight 389.38
Appearance orange solid
Lot Number 1097391

	LOT DATA	SPECIFICATION
Absorption ¹ Maximum Extinction	494 nm 83000 cm ⁻¹ M ⁻¹	494 ± 3 nm 78000 ± 7000 cm ⁻¹ M ⁻¹
Fluorescence ¹ Emission Maximum	521 nm	520 ± 4 nm
HPLC ² Isomer Purity	99 % at 254 nm	≥ 97 % at 254 nm
HPLC ³ Purity	97 % at 254 nm	≥ 95 % at 254 nm
NMR Result	meets specification	consistent with structure
Miscellaneous Information Material Lot Number	72484270	N/A

1. Solvent: Buffer, 50 mM potassium phosphate (pH 9).

2. Method: Compositional Analysis.

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

Betty Wood

Betty Wood, Quality Assurance Manager

28-Aug-2009

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.