MOLECULAR PROBES®

CERTIFICATE OF ANALYSIS

Catalog Number	C2210
Product Name	5-carboxyfluorescein, succinimidyl ester (5-FAM, SE) *single isomer*
CAS Number / Name	92557-80-7 / 2,5-Pyrrolidinedione, 1-[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]oxy]-
Molecular Formula	$C_{25}H_{15}NO_9$
Molecular Weight	473.39
Appearance	orange solid
Lot Number	633916

	LOT DATA	SPECIFICATION
Absorption[1]		
Maximum	493 nm	495 ± 3 nm
Extinction	78600 $cm^{-1}M^{-1}$	74000 ± 5000 $cm^{-1}M^{-1}$
Fluorescence[1]		
Emission Maximum	520 nm	520 ± 4 nm
HPLC[2]		
Isomer Purity	99 % at 254 nm	≥ 97 % at 254 nm
HPLC[3]		
Purity	94 % at 254 nm	≥ 90 % at 254 nm
NMR		
Result	meets specification	consistent with structure
Miscellaneous Information		
Material Lot Number	34A1	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.

Terence Featherstone, Ph.D., Biosciences Quality Control Manager

20-Sep-2005

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.

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