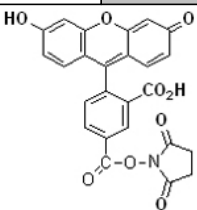


Certificate of Analysis (C of A)			
Name:	5-FAM, SE *Single Isomer* 5-Carboxyfluorescein succinimidyl ester		
Catalog Number:	7021	Lot:	50419
CAS Number:	92557-80-7	Formula:	C ₂₅ H ₁₅ NO ₉
Molecular Weight:	473.39 (g/mol)		
	Observed	Standard	
HPLC Purity:	95% at 254 nm	≥ 90% at 254 nm	
Absorption (Buffer pH 10)			
Wavelength (λ _{max}):	493 nm	495 ± 3 nm	
Extinction:	79,800 cm ⁻¹ M ⁻¹	77,000 ± 5,000 cm ⁻¹ M ⁻¹	
Fluorescence (Buffer pH 10)			
Emission Max:	518 nm	520 ± 4 nm	
TLC Purity:	> 98%	≥ 90%	
TLC System:	90:10 Chloroform / Methanol		
Storage:	Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)		
Production Lot:	14861	Release:	17-Apr-2015
		Expiration:	17-Apr-2020
Structure:			

This data reflects the accuracy of the analysis of the subject lot
 For research use only. Not for human use. No animal source.
 This material is chemically synthesized and manufactured in the USA

Approved by: Dianna M Wineinger
 Analytical Services Manager

Date: 17-Apr-2015

Signature: 