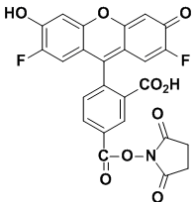


Certificate of Analysis (C of A)			
Name:	5-FG 488, SE Forest Green 488 Carboxylic Acid, Succinimidyl Ester, 5-isomer		
Catalog Number:	7651	Lot:	51225
CAS Number:	198139-51-4	Formula:	C ₂₅ H ₁₃ F ₂ NO ₉
Molecular Weight:	509.38 (g/mol)		
	Observed	Standard	
HPLC Purity:	93% at 254 nm	≥ 90% at 254 nm	
Absorption (pH 10 phosphate buffer)			
Wavelength (λ _{max}):	494 nm	495 ± 3 nm	
Extinction:	70,900 cm ⁻¹ M ⁻¹	76,000 ± 6,000 cm ⁻¹ M ⁻¹	
Fluorescence (pH 10 phosphate buffer)			
Emission Max:	522 nm	521 ± 4 nm	
TLC Purity:	> 98%	≥ 90%	
TLC System:	90:9.9:0.1 Chloroform / Methanol / Acetic Acid		
Storage:	Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)		
Production Lot:	15867	Release:	15-Sep-2022
		Expiration:	08-Aug-2022
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: 15-Sep-2022

Signature: 