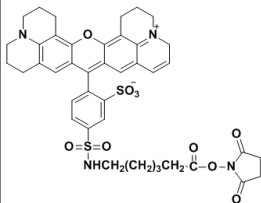


Certificate of Analysis (C of A)					
Name:		SR 101-X, SE *Single Isomer* Sulforhodamine 101-X, Succinimidy ester			
Catalog Number:		7825	Lot:		51858
CAS Number:		N/A	Formula:		C ₄₁ H ₄₄ N ₄ O ₁₀ S ₂
Molecular Weight:		816.94 (g/mol)			
		Observed		Standard	
HPLC Purity:		96% at 254 nm		≥ 90% at 254 nm	
Absorption (Methanol)					
Wavelength (λ _{max}):		582 nm		583 ± 3 nm	
Extinction:		105,800 cm ⁻¹ M ⁻¹		112,000 ± 12,000 cm ⁻¹ M ⁻¹	
Fluorescence (Methanol)					
Emission Max:		600 nm		596 ± 4 nm	
TLC Purity:		> 99%		≥ 90%	
TLC System:		80:20 Chloroform / Methanol			
HPLC: Isomer purity		Isomer ratio: 94:6		>90% single isomer	
Storage:		Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)			
Production Lot:		15887	Release:	29-Jun-2020	Expiration: 29-Jun-2025
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: 29-Jun-2020

Signature: 