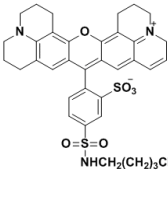


Certificate of Analysis (C of A)			
Name:	SR 101-X, SE *Single Isomer* Sulforhodamine 101-X, Succinimidy ester		
Catalog Number:	7378	Lot:	52076
CAS Number:	N/A	Formula:	C ₄₁ H ₄₄ N ₄ O ₁₀ S ₂
Molecular Weight:	816.94 (g/mol)		
	Observed	Standard	
HPLC Purity:	93% at 254 nm	≥ 90% at 254 nm	
Absorption (Methanol)			
Wavelength (λ _{max}):	582 nm	583 ± 3 nm	
Extinction:	116,400 cm ⁻¹ M ⁻¹	112,000 ± 12,000 cm ⁻¹ M ⁻¹	
Fluorescence (Methanol)			
Emission Max:	600 nm	596 ± 4 nm	
TLC Purity:	> 95%	≥ 90%	
TLC System:	80:20 Chloroform/Methanol		
HPLC: Isomer purity	Isomer ratio: 93:7	>90% single isomer	
Storage:	Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)		
Production Lot:	16385	Release:	11-Jan-2021
		Expiration:	11-Jan-2026
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: 11-Jan-2021

Signature:

Dianna M. Wineinger