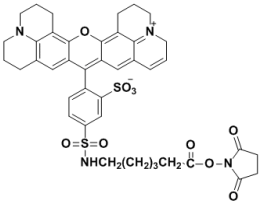


Certificate of Analysis (C of A)			
Name:	SR 101-X, SE *Single Isomer* Sulforhodamine 101-X, Succinimidy ester		
Catalog Number:	7378	Lot:	52238
CAS Number:	N/A	Formula:	C <sub>41</sub> H <sub>44</sub> N <sub>4</sub> O <sub>10</sub> S <sub>2</sub>
Molecular Weight:	816.94 (g/mol)		
	<b>Observed</b>	<b>Standard</b>	
HPLC Purity:	96% at 254 nm	≥ 90% at 254 nm	
<b>Absorption (Methanol)</b>			
Wavelength (λ <sub>max</sub> ):	582 nm	583 ± 3 nm	
Extinction:	105,800 cm <sup>-1</sup> M <sup>-1</sup>	112,000 ± 12,000 cm <sup>-1</sup> M <sup>-1</sup>	
<b>Fluorescence (Methanol)</b>			
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:**

*Dianna M Wineinger*