

Certificate of Analysis						
Name:	5(6)-TAMRA, SE 5(6)-Carboxytetramethylrhodamine, succinimidyl ester [NHS-Rhodamine]					
Catalog Number:	6267	Lot: 50259				
CAS Number:	246256-50-8	Formula: C ₂₉ H ₂₅ N ₃ O ₇		N ₃ O ₇		
Molecular Weight:	527.53 (g/mol)					
	Observed		Standard	Standard		
HPLC Purity:	94% at 254 nm		≥ 90% at 254 nm			
Absorption (Methanol)						
Wavelength (λ_{max}):	546 nm		547 ± 3 nm			
Extinction:	90,100 cm ⁻¹ M ⁻¹		92,000 ± 8,000 cm ⁻¹ M ⁻¹			
Fluorescence (Methanol)						
Emission Max:	574 nm		576 ± 4 nm			
TLC Purity:	> 95%	≥ 90%				
TLC System:	80:20 Chloroform / Methanol					
Storage:	Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)					
Production Lot: 146	86 Release:	29-Dec-20	14 Ex	piration:	29-Dec-2019	
Structure:	$(CH_3)_2 N \qquad 0 \qquad \downarrow \qquad (CH_3)_2 N \qquad 0 \qquad \downarrow \qquad (CH_3)_2 \qquad 0 \qquad \qquad (CH_3)_2 \qquad \qquad (C$					

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 Date: 29-Dec-2014 Analytical Services Manager <u>Mineinger</u> Signature: