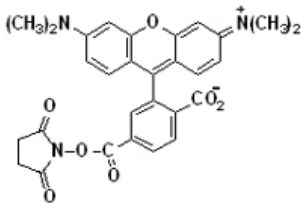
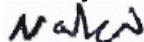


## Certificate of Analysis

(C of A)

Name:		<b>6-TAMRA,SE</b> 6-Carboxytetramethylrhodamine, succinimidyl ester			
Catalog Number:	6197	Lot:		50202	
CAS Number:	150810-69-8	Formula:		C <sub>29</sub> H <sub>25</sub> N <sub>3</sub> O <sub>7</sub>	
Molecular Weight:	527.53 (g/mol)				
	Observed		Standard		
HPLC Purity:	93% at 254 nm		≥ 90% at 254 nm		
Absorption (Methanol)					
Wavelength (λ <sub>max</sub> ):	547 nm		547 ± 3 nm		
Extinction:	93,900 cm <sup>-1</sup> M <sup>-1</sup>		95,000 ± 7,000 cm <sup>-1</sup> M <sup>-1</sup>		
TLC Purity:	> 97%		≥ 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:	14508	Release:	20-Oct-2014	Expiration:	20-Oct-2019
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:** Nabi  
 Analytical Services Manager  
**Signature:** 

**Date:** 20-Oct-2014