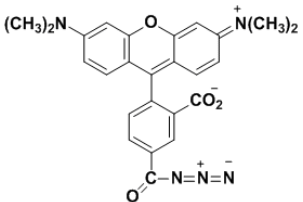


Certificate of Analysis (C of A)			
Name:	5-TAMRA Carbonyl Azide Tetramethylrhodamine-5-Carbonyl Azide		
Catalog Number:	6234	Lot:	50698
CAS Number:	N/A	Formula:	C ₂₅ H ₂₁ N ₅ O ₄
Molecular Weight:	455.47 (g/mol)		
	Observed	Standard	
HPLC Purity:	92% at 254 nm	≥ 90% at 254 nm	
Absorption (Methanol)			
Wavelength (λ _{max}):	545 nm	545 ± 3 nm	
Extinction:	94,700 cm ⁻¹ M ⁻¹	89,000 ± 6,000 cm ⁻¹ M ⁻¹	
Fluorescence (Methanol)			
Emission Max:	578 nm	578 ± 4 nm	
TLC Purity:	> 96%	≥ 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:	15245	Release:	07-Dec-2015
		Expiration:	07-Dec-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: 07-Dec-2015

Signature: 