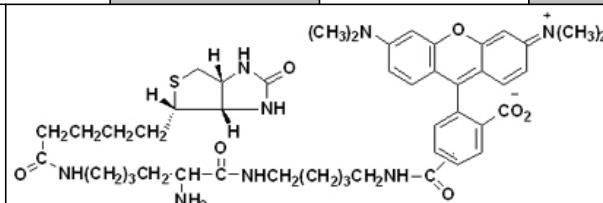


## Certificate of Analysis

(C of A)

Name:	Biocytin TMR 5(6)-Carboxytetramethylrhodamine biocytin				
Catalog Number:	6662	Lot:	51507		
CAS Number:	N/A	Formula:	C <sub>46</sub> H <sub>60</sub> N <sub>8</sub> O <sub>7</sub> S		
Molecular Weight:	869.09 (g/mol)				
	Observed	Standard			
Absorption (Methanol)					
Wavelength (λ <sub>max</sub> ):	543 nm	543 ± 3 nm			
Extinction:	89,100 cm <sup>-1</sup> M <sup>-1</sup>	89,000 ± 6,000 cm <sup>-1</sup> M <sup>-1</sup>			
Fluorescence (Methanol)					
Emission Max:	572 nm	571 ± 4 nm			
TLC Purity:	> 95%	≥ 90%			
TLC System:	70:24:3:3 Chloroform / Methanol / Water / Acetic Acid				
Storage:	Refrigerate: Store at 4-8°C (Ref), Protect from moisture (D), Protect from light (L)				
Production Lot:	15440	Release:	20-Sep-2016	Expiration:	20-Sep-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:** 20-Sep-2016

**Signature:**

*Dianna M. Wineinger*