

Certificate of Analysis (C of A)					
Name:		Naloxone fluorescein			
Catalog Number:		7315	Lot:		50221
CAS Number:		88641-41-2	Formula:		C <sub>42</sub> H <sub>38</sub> N <sub>4</sub> O <sub>10</sub> S
Molecular Weight:		790.84 (g/mol)			
		Observed	Standard		
Absorption (Buffer pH 10)					
Wavelength (λ <sub>max</sub> ):		492 nm	492 ± 3 nm		
Extinction:		85,500 cm <sup>-1</sup> M <sup>-1</sup>	83,000 ± 5,000 cm <sup>-1</sup> M <sup>-1</sup>		
TLC Purity:		> 95%	≥ 90%		
TLC System:		75:20:5 Chloroform/ Methanol/ Acetic acid			
LC/MS Result m/z:		730 (positive mode)	Desired mass: 730 (without acetic acid)		
Storage:		Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)			
Production Lot:		14621	Release:	18-Nov-2014	Expiration: 18-Nov-2024
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:** 18-Nov-2014

**Signature:** 