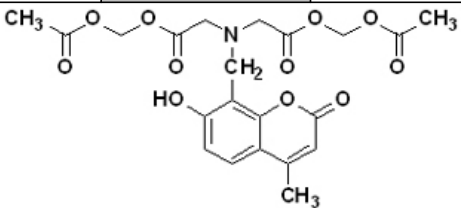


<b>Certificate of Analysis</b> (C of A)			
Name:	Calcein blue, AM *Cell permeant*		
Catalog Number:	6181	Lot:	50961
CAS Number:	168482-84-6	Formula:	C <sub>21</sub> H <sub>23</sub> NO <sub>11</sub>
Molecular Weight:	465.41 (g/mol)		
	<b>Observed</b>	<b>Standard</b>	
HPLC Purity:	99% at 254 nm	≥ 80% at 254 nm	
<b>Absorption (Methanol)</b>			
Wavelength (λ <sub>max</sub> ):	322 nm	322 ± 3 nm	
Extinction:	14,700 cm <sup>-1</sup> M <sup>-1</sup>	15,000 ± 1,000 cm <sup>-1</sup> M <sup>-1</sup>	
<b>Fluorescence (Methanol)</b>			
Emission Max:	440 nm	440 ± 4 nm	
Storage:	Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)		
Production Lot:	15438	Release:	15-Sep-2016
		Expiration:	15-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:** 15-Sep-2016

**Signature:** 