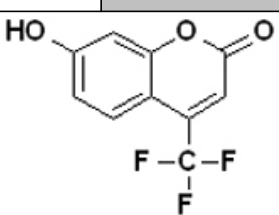


<b>Certificate of Analysis</b> (C of A)			
<b>Name:</b>	<b>7-Hydroxy-4-(trifluoromethyl)coumarin</b> <b>4-trifluoromethylumbelliferone</b>		
<b>Catalog Number:</b>	7124	<b>Lot:</b>	50340
<b>CAS Number:</b>	575-03-1	<b>Formula:</b>	$C_{10}H_5F_3O_3$
<b>Molecular Weight:</b>	230.14 (g/mol)		
	<b>Observed</b>	<b>Standard</b>	
<b>HPLC Purity:</b>	99% at 254 nm	≥ 95% at 254 nm	
<b>Absorption (Buffer pH 10)</b>			
<b>Wavelength (<math>\lambda_{max}</math>):</b>	385 nm	386 ± 3 nm	
<b>Extinction:</b>	16,500 $cm^{-1}M^{-1}$	17,500 ± 1,500 $cm^{-1}M^{-1}$	
<b>Fluorescence (Buffer pH 10)</b>			
<b>Emission Max:</b>	500 nm	503 ± 4 nm	
<b>TLC Purity:</b>	> 99%	≥ 95%	
<b>TLC System:</b>	95:5 Chloroform / Methanol		
<b>Storage:</b>	Store at Room Temperature (RT), Protect from moisture (D), Protect from light (L)		
<b>Production Lot:</b>	14795	<b>Release:</b>	23-Feb-2015
		<b>Expiration:</b>	23-Feb-2035
<b>Structure:</b>			

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:** 23-Feb-2015

**Signature:** 