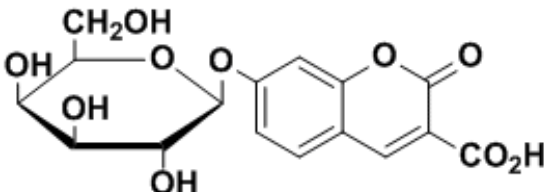


## Certificate of Analysis

(C of A)

Name:		CUG 3-Carboxyumbelliferyl beta-D-galactopyranoside						
Catalog Number:		6560	Lot:		51971			
CAS Number:		64664-99-9	Formula:		C <sub>16</sub> H <sub>16</sub> O <sub>10</sub>			
Molecular Weight:		368.30 (g/mol)						
		Observed		Standard				
HPLC Purity:		97% at 254 nm		≥ 90% at 254 nm				
Absorption (Buffer pH8)								
Wavelength (λ <sub>max</sub> ):		330 nm		329 ± 3 nm				
Extinction:		16,700 cm <sup>-1</sup> M <sup>-1</sup>		17,500 ± 1,500 cm <sup>-1</sup> M <sup>-1</sup>				
TLC Purity:		> 99%		≥ 90%				
TLC System:		80:20 Acetonitrile / Water						
Storage:		Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)						
Production Lot:		13028	Release:		08-Aug-2014	Expiration:		08-Aug-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:** 08-Aug-2014

**Signature:** 