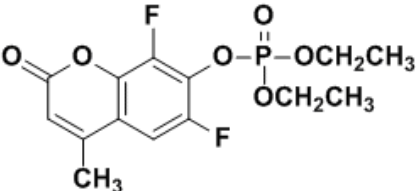


<b>Certificate of Analysis</b> (C of A)					
Name:	<b>DEPFMU [DIFMUP, Diethyl Ester]</b> Diethylphospho-6,8-difluoro-4-methyl-umbelliferone				
Catalog Number:	7643		Lot:	52391	
CAS Number:	N/A		Formula:	C <sub>14</sub> H <sub>15</sub> F <sub>2</sub> O <sub>6</sub> P	
Molecular Weight:	348.24 (g/mol)				
	<b>Observed</b>	<b>Standard</b>			
HPLC Purity:	99% at 254 nm		≥ 95% at 254 nm		
<b>Absorption (Methanol)</b>					
Wavelength (λ <sub>max</sub> ):	313 nm		312 ± 3 nm		
Extinction:	5,700 cm <sup>-1</sup> M <sup>-1</sup>		6,200 ± 600 cm <sup>-1</sup> M <sup>-1</sup>		
TLC Purity:	> 99%		≥ 95%		
TLC System:	1:1 Hexane/ Ethyl acetate				
Storage:	Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)				
Production Lot:	14928	Release:	26-May-2015	Expiration:	26-May-2025
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:** 26-May-2015

**Signature:** 