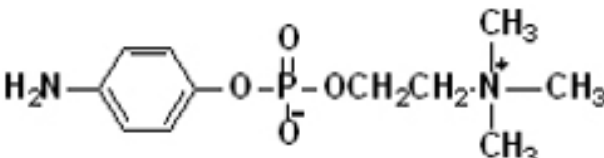


Certificate of Analysis

(C of A)

Name:		APPC 4-Aminophenyl phosphorylcholine			
Catalog Number:		6117		Lot: 51746	
CAS Number:		102185-28-4		Formula: C ₁₁ H ₁₉ N ₂ O ₄ P	
Molecular Weight:		274.26 (g/mol)			
		Observed		Standard	
HPLC Purity:		99% at 254 nm		≥ 95% at 254 nm	
NMR (D ₂ O)					
Result:		Meets specification		Consistent with structure	
Nuclei:		1H		1H	
Absorption (Methanol)					
Wavelength (λ _{max}):		294 nm		293 ± 3 nm	
Extinction:		1,700 cm ⁻¹ M ⁻¹		1,700 ± 150 cm ⁻¹ M ⁻¹	
TLC Purity:		> 99%		≥ 95%	
TLC System:		60:40 Acetonitrile / Water with Ninhydrin Dip			
Storage:		Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)			
Production Lot:		14953	Release:	09-Jun-2015	Expiration: 09-Jun-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: 09-Jun-2015

Signature: 