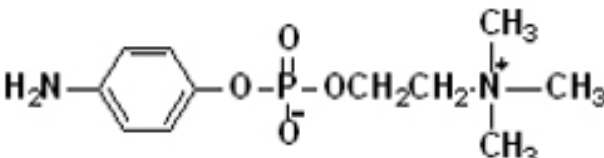


Certificate of Analysis

(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: 