**Supporting information**

# An effective method for the evaluation of the enantiomeric purity of 1,2-diacyl-*sn*-glycero-3-phosphocholine lipids by NMR analysis

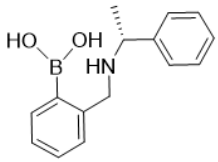
Antonia Di Mola,[a] Lorenzo de Ferra,[b] Mauro Anibaldi,[b] Guglielmo Monaco[a] and Antonio Massa*[,a]

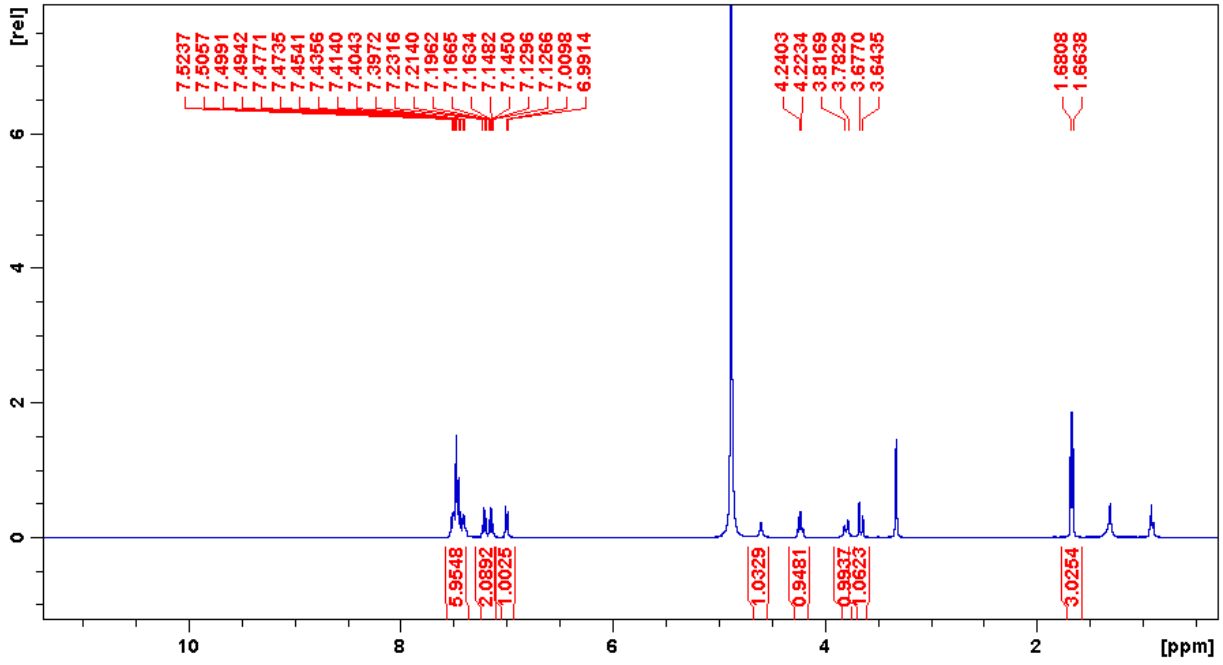
[a]Dipartimento Di Chimica e Biologia "A. Zambelli", Università degli studi di Salerno, Via Giovanni Paolo II 132, 84084-Fisciano (SA), Italy

[b]Chemi SpA, Via Vadisi 5, 03010-Patrica (FR), Italy

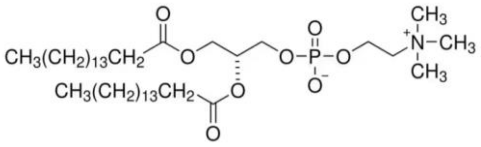
*Corresponding author: amassa@unisa.it

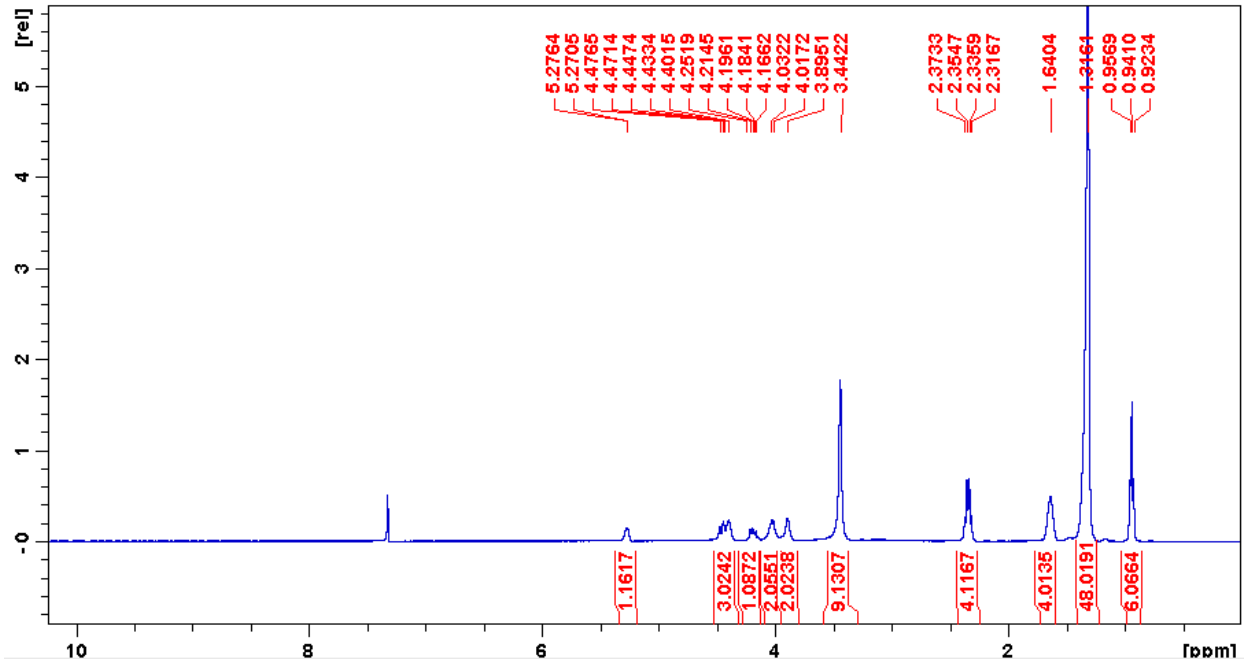
$^{1}$H NMR spectrum (400 MHz) of (*R*)-(2-(((1-phenylethyl)amino)methyl)phenyl)boronic acid in MeOD-$d_4$.



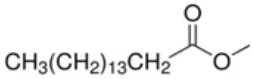



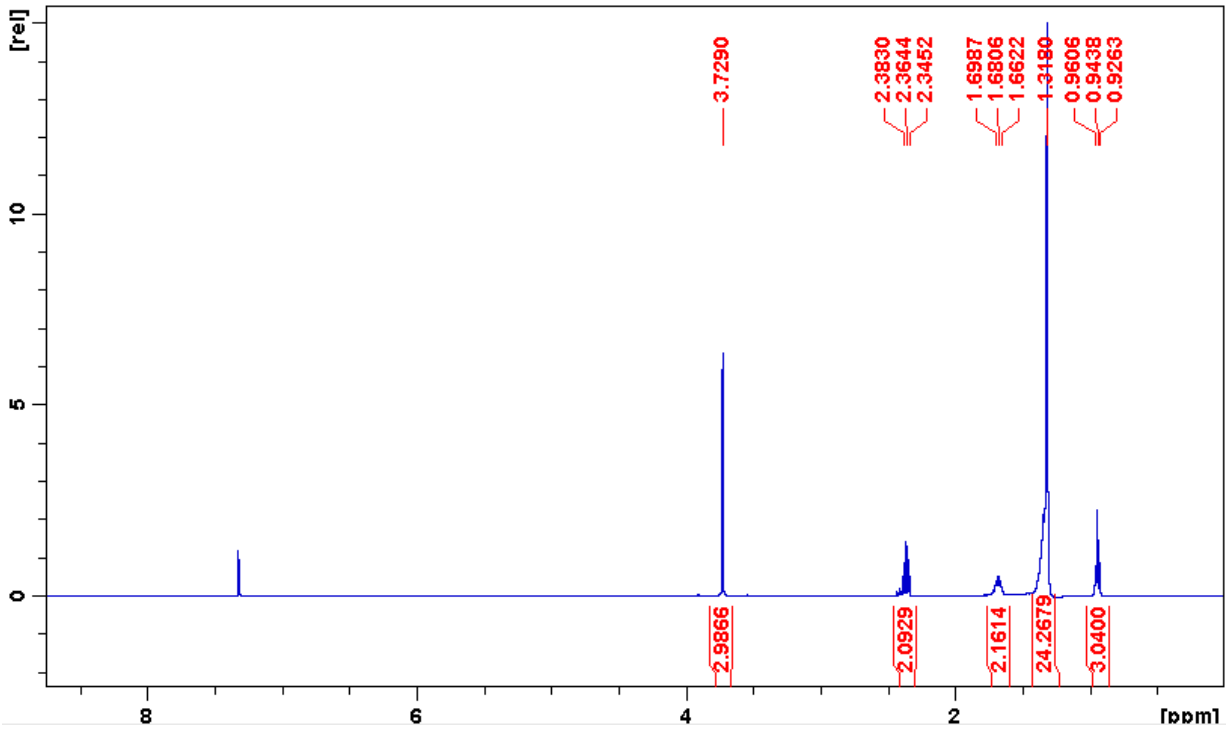
$^{1}$H NMR spectrum (400 MHz) of 1,2-dipalmitoyl-*sn*-glycero-3-phosphocholine (DPPC) in $CDCl_3$.



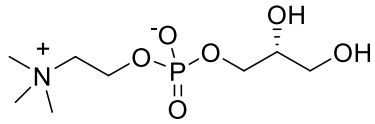


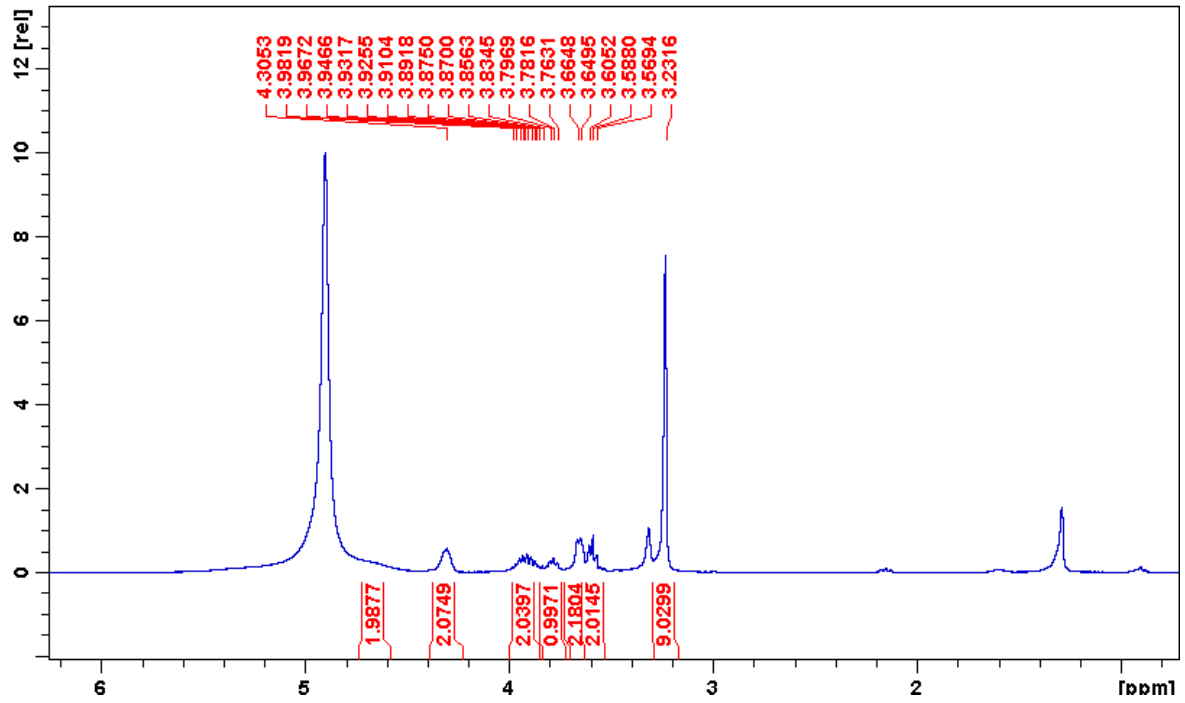
$^{1}H$ NMR spectrum in $CDCl_3$ (400 MHz) of recovered palmitoyl methyl ester after evaporation of $CHCl_3$ solution.



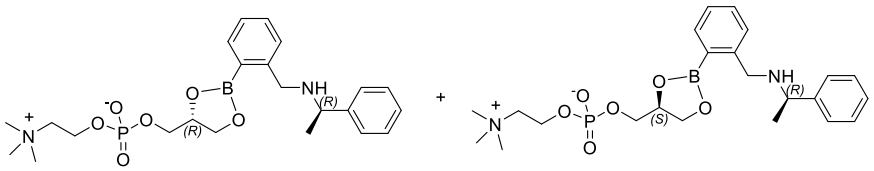



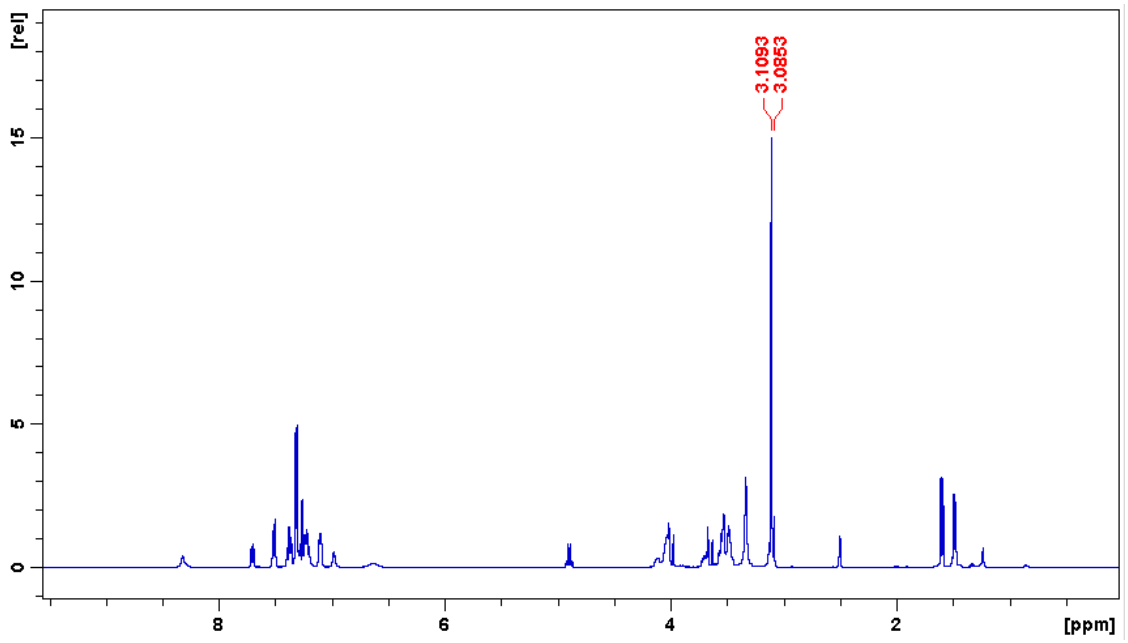
$^{1}$H NMR spectrum in $D_2O$ (400 MHz) of isolated *sn*-glycero-3-phosphocholine after $CHCl_3$ washing.



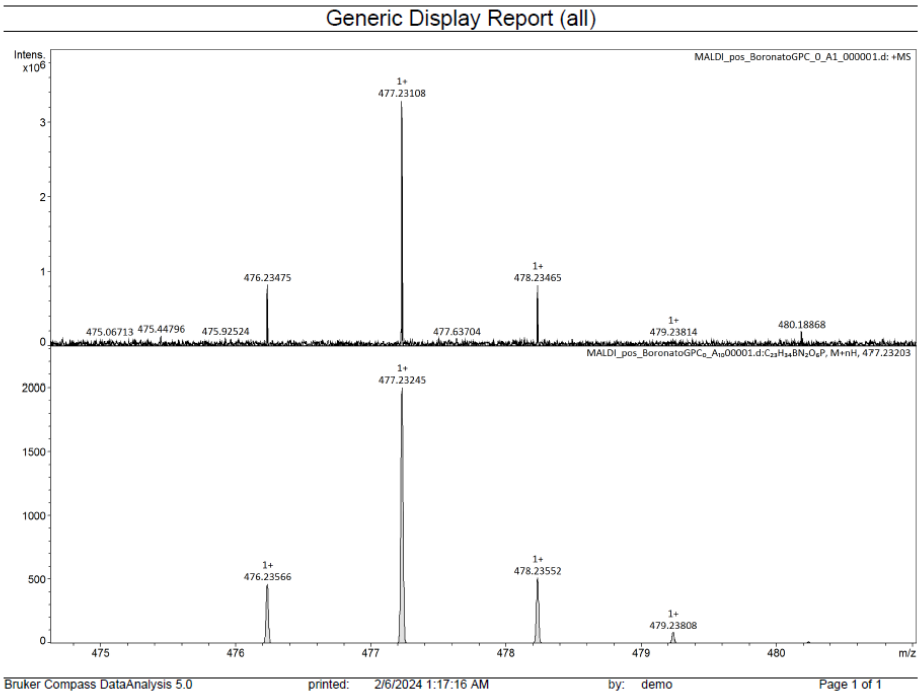



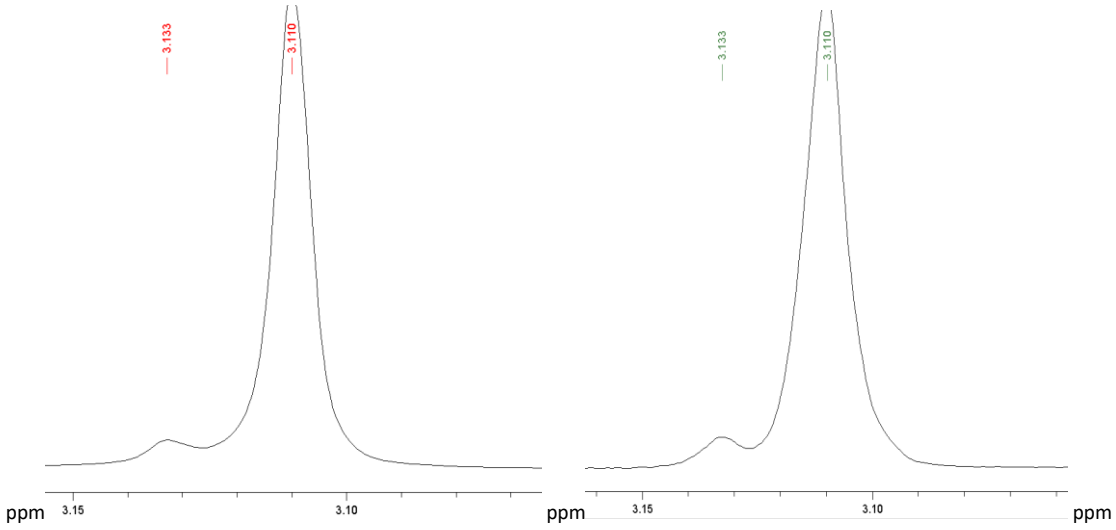
$^{1}$H NMR spectrum (400 MHz) of GPC-CDA reaction starting from the DPPC at 90/10 e.r in DMSO-$d_6$.






**HRMS** (MALDI-FT ICR) of a sample taken directly from the DMSO-$d_6$ reaction mixture: *m/z* calcd. for $C_{23}H_{35}BN_2O_6P$ $[M+H]^+$: 477,23258; found: 477,23108






(a) (b)

**Figure S1**: Portion of $^{1}H$ NMR resolution enhanced spectra (ppm in abscissa) displaying choline resonance of GPC-boronate product: (a) analysis of commercially available 1,2-dimyristoyl-*sn*-glycero-3-phosphocholine DMPC; (b) analysis of commercially available 1,2-distearoyl-*sn*-glycero-3-phosphocholine DSPC.