

Supplementary Information for:

Simultaneous Quantification of Serum Multi-Phospholipids as Potential Biomarkers for Differentiating Different Pathophysiological states of lung, stomach, intestine, and pancreas

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Table S1. The stability and reliability of SM(34:1), PC(34:2), PC(34:1), PC(36:4), PC(36:3) and PC(36:2) in QC samples.

Analytes	SM(34:1)	PC(34:2)	PC(34:1)	PC(36:4)	PC(36:3)	PC(36:2)
RSD(%)	7.62	15.41	19.03	13.72	15.94	12.42

RSD% was obtained based on 73 independent tests of the QC sample.

Table S2. Identified phospholipids by tandem mass spectra.

Matched Metabolites	Molecular Formula	Observed m/z		Theoretical m/z	Error (Sample)	Error (Standards)	Isotope distribution	Tandem mass spectrometry fragments	
		Sample	Standards				M : (M+1)	Sample	Standards
							Theoretical / Observed		
SM(34:1)	C ₃₉ H ₇₉ N ₂ O ₆ P	703.5749	703.5749	703.5749	0.0000	0.0000	100.0 : 44.1 / 100.0 : 41.1	184.0797/703.5749	184.0791/703.5749
PC(34:2)	C ₄₂ H ₈₀ NO ₈ P	758.5683	758.5684	758.5694	-0.0001	-0.0011	100.0 : 47.0 / 100.0 : 48.8	184.0785/758.5683	184.0785/758.5684
PC(34:1)	C ₄₂ H ₈₂ NO ₈ P	760.5860	760.5859	760.5851	0.0009	0.0008	100.0 : 47.1 / 100.0 : 51.0	184.0785/760.5860	184.0786/760.5859
PC(36:4)	C ₄₄ H ₈₀ NO ₈ P	782.5708	782.5704	782.5694	0.0014	0.0010	100.0 : 49.2 / 100.0 : 48.9	184.0792/599.5047/ 723.5009/782.5708	184.0792/599.5047/ 723.5009/782.5704
PC(36:3)	C ₄₄ H ₈₂ NO ₈ P	784.5845	N/A	784.5851	-0.0006	N/A	100.0 : 49.2 /100.0 : 44.6	184.0791/784.5845	N/A
PC(36:2)	C ₄₄ H ₈₄ NO ₈ P	786.6000	786.5999	786.6007	-0.0007	-0.0008	100.0 : 49.2 /100.0 : 50.8	184.0791/786.6000	184.0790/786.5999