

Table S1. List of phosphocholines and sphingomyelin fragmentation diagnostic ions observed in MALDI-MS/MS spectra from bovine embryos.

Precursor Ion	Most Intense MS/MS Ion	<i>m/z</i>	Observation
Phosphatidylcholine [PC+Na]⁺ or [PC+H]⁺	[M+Na] ⁺ - N(CH ₃) ₃ [M+H] ⁺ - N(CH ₃)	[M+Na] - 59 [M+Na] - 59	Neutral loss of trimethylamine
	[M+Na] ⁺ - C ₅ H ₁₄ PO ₄ N [M+H] ⁺ - C ₅ H ₁₄ PO ₄ N	[M+Na]-183 [M+H]-183	Neutral loss of head group (phosphorylcholine)
and			
Sphingomyelin [SM+Na]⁺ [SM+H]⁺	[C ₂ H ₅ O ₄ P+Na] ⁺	147	Sodiated cyclophosphane
	[C ₅ H ₁₅ PO ₄ N] ⁺	184	Polar head group
Triacylglycerol [TAG+Na]⁺	[M+Na] ⁺ -RCOONa	[M- RCOONa] ⁺	Loss of one of the fatty acid, as sodium carboxilate

R= alkyl group derived from fatty chain