

Phospho-, sphingolipids in plasma, lipoproteins, cells and tissue measured by HILIC LC-MS/MS

<https://ihuican.org/les-plateformes-scientifiques/ican-omics/>

Lipid classes	Lipid SubClasses	No of assayed species	
Glycerophospholipids	Phosphatidylcholine (PC)	27	
	PC	Alkyl and plasmalogen PC (PC(O) and PC(P))	12
		Lysophosphatidylcholine (LPC)	17
	PE	Phosphatidylethanolamine (PE)	24
		Plasmalogen PE	19
		Lysophosphatidylethanolamine (LPE)	15
	PI	Phosphatidylinositol (PI)	23
	PS	Phosphatidylserine (PS)	24
	PG	Phosphatidylglycerol (PG)	31
		Lysophosphatidylglycerol (LPG)	17
		bis(monoacylglycero)phosphate (BMP)	18
	PA	Phosphatidic acid (PA)	23
	Sphingolipids	Deoxydihydroceramides (m18:0)	18
Ceramides		Deoxyceramides (m18:1)	18
		Deoxyshingadienine (m18:2)	18
		Dihydroceramide (d18:0)	18
		Ceramides (d18:1)	17
		Sphingadienine (d18:2)	19
glycosylceramides		Hexosyldihydroceramide (hex d18:0)	14
		Hexosylceramide (hex d18:1)	14
		Hexosylsphingadienine (hex d18:2)	14
		Dihexosyldihydroceramide (hex2 d18:0)	14
		Dihexosylceramide (hex2 d18:1)	14
		Dihexosylsphingadienine (hex2 d18:2)	14
		sphingomyelin	Dihydrosphingomyelin (DHSM)
Sphingomyelin (SM)			16
sphingosines		Sphingosines phosphate (S1P)	10
		Sphingosines (SPH)	7
Total		491	

Neutral lipids in plasma, lipoproteins, cells and tissue measured by C18 LC-MS/MS

Lipid classes	Lipid SubClasses	No of assayed species
Glycerolipids	Triacylglycerides (TG)	58
	Diacylglycerides (DG)	35
	Monoacylglycerides (MG)	19
Sphingolipids	Acylceramides (AcylCer)	15
Sterol lipids	Cholesteryl Esters (CE)	22
	Cholesterol	1
Total		150

Bile acids by C18 LC-MS/MS

conjugated bile acids	tauro conjugated bile acids	TaMCA TbMCA TCA TCDCA TDCA TDHCA THCA THDCA TLCA ToMCA TUDCA
	sulfate conjugated bile acids	CA-3S CA-7S DCA-3S LCA-3S TCA-3S TLCA-3S UDCA-3S
	glyco conjugated bile acids	GCA-3S GCA GCDCA GDCA GHCA GHDCA GLCA-3S GLCA GUDCA
primary bile acids		aMCA bMCA IMCA CA CDCA
secondary bile acids		12-keto-CDCA DCA IDCA 7-keto-DCA HDCA alloLCA isoalloLCA isoLCA LCA 12-keto-LCA 3-keto-LCA 7-keto-LCA oMCA UDCA

Sterols measured by GC-MS

Lipids	
Cholesterol synthesis	Cholesterol
	Squalen
	Lanosterol
	Desmosterol
	Lathosterol
Gut metabolism	Coprostanol
	Epicoprostanol
	Ethylcoprostanol
	Campestanol
	Cholestanone
	Cholestenone
Absorption markers	Beta-sitosterol
	Campesterol
	Cholestanol
	Stigmasterol
Total	15

Free fatty acids measured by Fast CI-GC-MS

Lipids
C15:0
C16:0
C16:1w6
C16:1 w10
C17:0
C18:0
C18:1
C18:2
C18:3 w3
C18:3 w6
C20:0
C20:1
C20:2
C20:3 w3
C20:3 w6
C20:4
C20:5
C22:0
C22:1
C22:4
C22:6
C23:0
C24:0
C24:1
C24:4
C24:5
C24:6
C26:0
Total: 27