

Comprehensive LC—MS^E Lipidomic Analysis using a Shotgun Approach and Its Application to Biomarker Detection and Identification in Osteoarthritis Patients [*Journal of Proteome Research* **2010**, *9*, 2377–2389 DOI: 10.1021/pr901094j]. Jose M. Castro-Perez,* Jurre Kamphorst, Jeroen DeGroot, Floris Lafeber, Jeff Goshawk, Kate Yu, John P. Shockcor, Rob J. Vreeken, and Thomas Hankemeier

Page 2377: In the abstract, the total number of lipids identified and quantified was 275, not 284 as originally reported.

Page 2379: In section 2.5, ammonium acetate was mentioned twice. Both instances should be ammonium formate.

Page 2381: In section 3.5, the total number of fatty acids is listed twice should be 275, not 284 as originally reported.

There was an error in Table S1 in the Supporting Information. The corrected Table S1 is presented here.

Table S1. List of All Major Lipids Identified in the Human Extracted Plasma^a

class	formula	m/z found	ppm	time (min)	provisional assi	gnment class	ionization mode
ChoE	$C_{47}H_{77}NO_2$	688.6016	-2.4	9.5	ChoE	20:5	$\left[M+NH_4\right]^+$
	$C_{49}H_{79}NO_2$	714.6185	-0.6	9.61	ChoE	22:6	$\left[M+NH_4\right]^+$
	$C_{45}H_{77}NO_2$	664.6057	3.6	9.67	ChoE	18:3	$[M + NH_4]^+$
	$C_{47}H_{79}NO_2$	690.6189	0.1	9.72	ChoE	20:4	$[M+NH_4]^+$
	$C_{45}H_{79}NO_2$	666.6193	0.6	9.84	ChoE	18:2	$[M+NH_4]^+$
	$C_{45}H_{81}NO_2$	668.6337	-1.3	10.14	ChoE	18:1	$[M+NH_4]^+$
DG	$C_{39}H_{71}NO_5$	634.5411	0	6.41	DG	36:4	$[M+NH_4]^+$
FA	$C_{18}H_{30}O_2$	277.2150	-6.4	1.46	FA	18:3	$[M-H]^-$
	$C_{22}H_{32}O_2$	327.2301	-7.1	1.52	FA	22:6	$[M-H]^-$
	$C_{14}H_{28}O_2$	227.2023	5.1	1.55	FA	14:0	$[M-H]^-$
	$C_{16}H_{30}O_2$	253.2170	0.9	1.65	FA	16:1	$[M - H]^-$
	$C_{20}H_{32}O_2$	303.2309	-5	1.7	FA	20:4	$[M-H]^-$
	$C_{18}H_{32}O_2$	279.2319	-1.9	1.8	FA	18:2	$[M-H]^-$
	$C_{20}H_{34}O_2$	305.2476	-1.6	1.98	FA	20:3	$[M-H]^-$
	$C_{16}H_{32}O_2$	255.2324	-0.1	2.12	FA	16:0	$[M-H]^-$
	$C_{22}H_{36}O_2$	331.2635	-0.7	2.18	FA	22:4	$[M-H]^-$
	$C_{18}H_{34}O_2$	281.2479	-0.6	2.24	FA	18:1	$[M-H]^-$
	$C_{17}H_{34}O_2$	269.2484	1.2	2.47	FA	17:0	$[M-H]^-$
	$C_{18}H_{36}O_2$	283.2638	0.2	2.86	FA	18:0	$[M-H]^-$
	$C_{20}H_{38}O_2$	309.2786	-2.5	2.95	FA	20:1	$[M-H]^-$
	$C_{20}H_{40}O_2$	311.2971	6.6	3.68	FA	20:0	$[M-H]^-$
PC	$C_{42}H_{76}NO_8P$	754.5411	3.2	4.89	PC	34:4	$[M + H]^+$
	$C_{40}H_{76}NO_8P$	730.5409	3.1	4.4	PC	32:2	$[M + H]^{+}$
	$C_{44}H_{78}NO_8P$	780.5551	1	4.54	PC	36:5	$[M + H]^+$
	$C_{46}H_{76}NO_8P$	802.5403	2	4.54	PC	38:8	$[M + H]^+$
	$C_{46}H_{80}NO_8P$	806.5709	1.2	4.55	PC	38:6	$[M + H]^+$
	$C_{44}H_{76}NO_8P$	778.5371	-2.1	4.59	PC	36:6	$[M + H]^+$
	$C_{44}H_{80}NO_8P$	782.5715	2	4.62	PC	36:4	$[M + H]^+$
	$C_{42}H_{78}NO_8P$	756.5535	-1.1	4.71	PC	34:3	$[M + H]^+$
	$C_{42}H_{82}NO_7P$	744.5935	3.8	4.71	PC-plasm	34:1	$[M + H]^+$
	$C_{44}H_{80}NO_8P$	782.5718	2.4	4.78	PC	36:4	$[M + H]^+$
	$\mathrm{C_{46}H_{80}NO_8P}$	806.5729	3.7	4.78	PC	38:6	$[M + H]^+$
	$C_{40}H_{78}NO_8P$	732.5576	4.5	4.89	PC	32:1	$[M + H]^{+}$



Table S1. Continued

	Continued						
class	formula	m/z found	ppm	time (min)	provisional assi	gnment class	ionization mo
	$C_{46}H_{78}NO_8P$	804.5527	-2	4.93	PC	37:0	$[M + H]^+$
	$C_{44}H_{80}NO_8P$	782.5728	3.6	4.94	PC	36:4	$[M + H]^+$
	$C_{35}H_{70}NO_8P$	664.4935	2.7	4.96	PC	28:7	$[M + H]^+$
	$C_{46}H_{82}NO_8P$	808.5896	4.9	4.96	PC	38:5	$[M + H]^+$
	$C_{42}H_{80}NO_8P$	758.5718	2.4	5.02	PC	34:2	$[M + H]^+$
	$C_{44}H_{78}NO_8P$	780.5545	0.2	5.04	PC	36:5	$[M + H]^{+}$
	$C_{44}H_{82}NO_8P$	784.5876	2.5	5.09	PC	36:3	$[M + H]^+$
	$C_{44}H_{80}NO_7P$	766.5762	1.4	5.15	PC-plasm	36:4	$[M + H]^+$
	$C_{44}H_{82}NO_8P$	784.5876	2.5	5.15	PC	36:3	$[M + H]^+$
	C ₄₆ H ₈₂ NO ₈ P	808.5851	-0.6	5.15	PC	38:5	$[M + H]^+$
	C ₄₆ H ₈₀ NO ₈ P	806.5684	-1.9	5.18	PC	38:6	$[M+H]^+$
	C ₄₃ H ₈₂ NO ₈ P	772.5861	0.6	5.22	PC	35:2	$[M+H]^+$
	$C_{43}H_{82}HO_{8}P$ $C_{46}H_{82}NO_{7}P$	792.5931	3	5.23	PC-plasm	38:5	$[M+H]^+$
	$C_{45}H_{82}NO_8P$	796.5875	2.4	5.23	PC	37:4	$[M+H]^+$
	C ₄₅ H ₈₂ NO ₈ P	810.6044	3.9	5.23	PC	38:4	$[M+H]^+$
			-5.8		PC		$[M+H]^+$
	C ₄₈ H ₈₂ NO ₈ P	832.5808		5.23		39:0	
	$C_{46}H_{80}NO_7P$	790.5731	-2.5	5.3	PC-plasm	38:6	$[M+H]^+$
	C ₄₃ H ₈₂ NO ₈ P	772.5858	0.2	5.31	PC	35:2	$[M+H]^+$
	$C_{44}H_{78}NO_7P$	764.5595	0.1	5.32	PC-plasm	36:5	$[M+H]^+$
	$C_{46}H_{84}NO_8P$	810.6016	0.4	5.35	PC	38:4	$[M+H]^+$
	$C_{48}H_{84}NO_8P$	834.6031	2.2	5.36	PC	40:6	$[M + H]^+$
	$\mathrm{C_{40}H_{80}NO_8P}$	734.5718	2.5	5.43	PC	32:0	$[M + H]^{+}$
	$C_{44}H_{84}NO_7P$	770.6059	-0.6	5.43	PC-plasm	36:2	$[M + H]^{+}$
	$C_{46}H_{84}NO_7P$	794.6064	0	5.43	PC-plasm	38:4	$[M + H]^+$
	$C_{42}H_{82}NO_8P$	760.5883	3.5	5.44	PC	34:1	$[M + H]^+$
	$C_{48}H_{86}NO_7P$	820.6230	1.2	5.44	PC-plasm	40:5	$[M + H]^+$
	$C_{44}H_{80}NO_8P$	782.5695	-0.6	5.45	PC	36:4	$[M + H]^+$
	$C_{46}H_{84}NO_8P$	810.6037	3	5.51	PC	38:4	$[M + H]^+$
	$C_{48}H_{82}NO_8P$	832.5830	-3.1	5.51	PC	40:7	$[M + H]^+$
	$C_{48}H_{86}NO_8P$	836.6119	-6	5.51	PC	40:5	$[M + H]^+$
	$C_{46}H_{82}NO_8P$	808.5830	-3.2	5.58	PC	38:5	$[M + H]^+$
	$C_{44}H_{84}NO_8P$	786.6025	1.6	5.59	PC	36:2	$[M + H]^+$
	$C_{43}H_{78}NO_8P$	768.5568	3.2	5.66	PC	35:4	$[M + H]^+$
	$C_{43}H_{84}NO_8P$	774.6008	-0.6	5.71	PC	35:1	$[M + H]^+$
	$C_{42}H_{84}NO_7P$	746.6033	-4.2	5.72	PC-plasm	34:0	$[M + H]^+$
	$C_{46}H_{86}NO_8P$	812.6152	-2.1	5.72	PC	38:3	$[M + H]^+$
	$C_{48}H_{84}NO_8P$	834.5981	-3.8	5.72	PC	40:6	$[M+H]^+$
	$C_{42}H_{84}NO_8P$	762.6032	2.6	5.91	PC	34:0	$[M + H]^+$
	$C_{44}H_{82}NO_8P$	784.5865	1.1	5.91	PC	36:3	$[M + H]^+$
	C ₄₄ H ₈₆ NO ₈ P	788.6165	-0.5	5.98	PC	36:1	$[M + H]^+$
	C ₄₆ H ₈₄ NO ₈ P	810.5992	-2.5	5.98	PC	38:4	$[M+H]^+$
	C ₄₆ H ₈₈ NO ₈ P	814.6338	1.5	6.03	PC	38:2	$[M+H]^+$
	C ₄₀ H ₇₆ NO ₈ P	742.5365	-2.9	6.06	PC	33:3	$[M+H]^+$
			-2.9 -1.4	6.06	PC PC		$[M+H]^+$
	C ₃₉ H ₇₈ NO ₈ P	720.5533				31:0	
	C ₄₆ H ₉₂ NO ₈ P	818.6649	1.3	6.83	PC PC	38:0	$[M+H]^+$
	C ₅₂ H ₉₆ NO ₈ P	894.6934	-2 2.5	8.44	PC PC	44:4	$[M+H]^+$
	$C_{50}H_{96}NO_8P$	870.6982	3.5	8.57	PC	42:2	$[M + H]^{+}$
	$C_{52}H_{98}NO_8P$	896.7118	1.1	8.6	PC	44:3	$[M + H]^+$
	$C_{52}H_{100}NO_8P$	898.7225	-4.4	8.82	PC	44:2	$[M + H]^+$
	$C_{54}H_{102}NO_8P$	924.7462	4.4	8.83	PC	46:3	$[M + H]^+$
	$C_{48}H_{94}NO_8P$	844.6763	-3.8	8.9	PC	40:2	$[M + H]^+$
	$C_{52}H_{102}NO_8P$	900.7373	-5.3	9.02	PC	44:1	$[M + H]^+$
	$C_{54}H_{106}NO_8P$	928.7690	-4.8	9.21	PC	46:1	$[M + H]^+$
PΕ	$C_{43}H_{76}NO_8P$	764.5237	0.8	5.16	PE	38:5	$[M - H]^-$

Table S1. Continued

Table S1.	Continued						
class	formula	m/z found	ppm	time (min)	provisional a	assignment class	ionization mode
	$C_{39}H_{74}NO_8P$	714.5103	4	5.18	PE	34:2	$[M-H]^-$
	$\mathrm{C_{43}H_{78}NO_{8}P}$	766.5403	2.1	5.65	PE	38:4	$[M-H]^-$
	$\mathrm{C_{41}H_{78}NO_8P}$	742.5404	2.3	5.74	PE	36:2	$[M-H]^-$
PG	$C_{32}H_{63}O_{10}P$	637.4073	-1.2	2.79	PG	26:0	$[M-H]^-$
	$C_{36}H_{71}O_{10}P$	693.4739	4.6	4	PG	30:0	$[M-H]^-$
	$C_{52}H_{99}O_{10}P$	913.6851	-5.1	6.26	PG	46:2	$[M-H]^-$
PI	$C_{45}H_{79}O_{13}P$	857.5202	2.5	3.99	PI	36:4	$[M-H]^-$
	$C_{43}H_{79}O_{13}P$	833.5187	0.8	4.07	PI	34:2	$[M-H]^-$
	$C_{49}H_{83}O_{13}P$	909.5511	1.9	4.42	PI	40:6	$[M-H]^-$
	$C_{43}H_{81}O_{13}P$	835.5377	4.8	4.5	PI	34:1	$[M-H]^-$
	$C_{47}H_{83}O_{13}P$	885.5524	3.5	4.57	PI	38:4	$[M - H]^-$
	$C_{45}H_{83}O_{13}P$	861.5481	-1.4	4.64	PI	36:2	$[M-H]^-$
	$C_{47}H_{85}O_{13}P$	887.5643	-0.8	4.76	PI	38:3	$[M-H]^-$
PS	$C_{37}H_{72}NO_{10}P$	720.4839	3.2	4.11	PS	31:0	$[M-H]^-$
	$C_{44}H_{80}NO_{10}P$	812.5402	-4.9	4.32	PS	38:3	$[M-H]^-$
	$C_{42}H_{80}NO_{10}P$	788.5465	2.9	4.42	PS	36:1	$[M-H]^-$
	$C_{46}H_{82}NO_{10}P$	838.5621	2.7	4.42	PS	40:4	$[M-H]^-$
	$C_{44}H_{82}NO_{10}P$	814.5624	3.1	4.53	PS	38:2	$[M-H]^-$
	$C_{46}H_{82}NO_{10}P$	838.5647	5.8	4.56	PS	40:4	$[M-H]^-$
	$C_{48}H_{84}NO_{10}P$	864.5773	2.1	4.56	PS	42:5	$[M-H]^-$
	$C_{46}H_{84}NO_{10}P$	840.5766	1.3	4.66	PS	40:3	$[M-H]^-$
	$C_{43}H_{82}NO_{10}P$	802.5607	1.1	4.73	PS	37:1	$[M-H]^-$
	$C_{48}H_{84}NO_{10}P$	864.5776	2.4	4.79	PS	42:5	$[M-H]^-$
	$C_{39}H_{72}NO_{10}P$	744.4801	-2	4.96	PS	33:2	$[M-H]^-$
	$C_{48}H_{86}NO_{10}P$	866.5933	2.5	4.98	PS	42:4	$[M-H]^-$
	$C_{44}H_{84}NO_{10}P$	816.5768	1.6	5.05	PS	38:1	$[M-H]^-$
	$C_{46}H_{86}NO_{10}P$	842.5944	3.9	5.11	PS	40:2	$[M-H]^-$
	$C_{48}H_{86}NO_{10}P$	866.5925	1.6	5.16	PS	42:4	$[M-H]^-$
	$C_{46}H_{86}NO_{10}P$	842.5911	0	5.19	PS	40:2	$[M-H]^-$
	$C_{45}H_{86}NO_{10}P$	830.5872	-4.7	5.26	PS	39:1	$[M-H]^-$
	$C_{45}H_{86}NO_{10}P$	830.5933	2.6	5.31	PS	39:1	$[M-H]^-$
	$C_{46}H_{86}NO_{10}P$	842.5946	4.1	5.37	PS	40:2	$[M-H]^-$
	$C_{50}H_{88}NO_{10}P$	892.6071	0.4	5.37	PS	44:5	$[M-H]^-$
	$C_{44}H_{86}NO_{10}P$	818.5949	4.6	5.46	PS	38:0	$[M-H]^-$
	$C_{48}H_{88}NO_{10}P$	868.6103	4	5.53	PS	42:3	$[M-H]^-$
	$C_{50}H_{90}NO_{10}P$	894.6236	1.3	5.54	PS	44:4	$[M-H]^-$
	$C_{45}H_{86}NO_{10}P$	830.5903	-1	5.61	PS	39:1	$[M - H]^-$
	$C_{46}H_{88}NO_{10}P$	844.6032	-4.2	5.61	PS	40:1	$[M - H]^-$
	$C_{50}H_{90}NO_{10}P$	894.6234	1.1	5.72	PS	44:4	$[M-H]^-$
	$C_{48}H_{90}NO_{10}P$	870.6227	0.3	5.74	PS	42:2	$[M-H]^-$
	$C_{45}H_{88}NO_{10}P$	832.6057	-1.3	5.77	PS	39:0	$[M-H]^-$
	$C_{50}H_{92}NO_{10}P$	896.6399	2	5.91	PS	44:3	$[M-H]^-$
	$C_{46}H_{90}NO_{10}P$	846.6190	-4.1	6.01	PS	40:0	$[M-H]^-$
	$C_{43}H80NO_{10}P$	800.5396	-5.7	6.08	PS	37:2	$[M-H]^-$
LPC	$C_{24}H_{48}NO_7P$	494.3251	0.8	1.15	LPC	16:1	$[M + H]^+$
	$C_{28}H_{48}NO_7P$	542.3225	-4.1	1.21	LPC	20:5	$[M + H]^+$
	$C_{22}H_{47}NO_7P$	468.3079	-2.3	1.21	LPC	14:0	$[M + H]^+$
	$C_{26}H_{50}NO_7P$	520.3397	-1.1	1.21	LPC	18:2	$[M + H]^+$
	$C_{30}H_{50}NO_7P$	568.3428	4.4	1.22	LPC	22:6	$[M + H]^+$
	$\mathrm{C_{28}H_{50}NO_{7}P}$	544.3421	3.3	1.23	LPC	20:4	$[M + H]^+$
	$\mathrm{C}_{26}\mathrm{H}_{50}\mathrm{NO}_{7}\mathrm{P}$	520.3394	-1.7	1.26	LPC	18:2	$[M + H]^+$
	$C_{23}H_{48}NO_7P$	482.3244	-0.6	1.42	LPC	15:0	$[M + H]^+$
	$C_{26}H_{48}NO_7P$	518.3246	-0.1	1.43	LPC	18:3	$[M + H]^+$
	$C_{24}H_{50}NO_7P$	496.3399	-0.8	1.45	LPC	16:0	$[M + H]^+$

Table S1. Continued

Table S1.	Continued						
class	formula	m/z found	ppm	time (min)	provisional a	ssignment class	ionization mod
	$C_{26}H_{52}NO_7P$	522.3538	-4.1	1.57	LPC	18:1	$\left[M+H\right]^{+}$
	$C_{25}H_{52}NO_7P$	510.3568	1.7	1.69	LPC	17:0	$[M + H]^+$
	$C_{27}H_{50}NO_7P$	532.3395	-1.5	1.69	LPC	19:3	$[M + H]^+$
	$C_{26}H_{54}NO_7P$	524.3726	1.9	1.84	LPC	18:0	$[M + H]^+$
	$C_{24}H_{50}NO_6P$	480.3436	-3.7	1.88	LPC	15:1	$[M + H]^+$
	$C_{24}H_{52}NO_6P$	482.3603	-1.7	1.93	LPC	15:0	$[M + H]^+$
	$C_{26}H_{54}NO_7P$	524.3726	1.9	1.97	LPC	18:0	$[M + H]^+$
	$C_{28}H_{52}NO_7P$	546.3549	-1.9	1.99	LPC	20:3	$[M + H]^+$
	$C_{28}H_{52}NO_7P$	546.3559	-0.1	2.02	LPC	20:3	$[M + H]^+$
	C ₂₆ H ₅₄ NO ₆ P	508.3758	-1.8	2.06	LPC	17:1	$[M + H]^+$
	$C_{27}H56NO_7P$	538.3885	2.3	2.14	LPC	19:0	$[M + H]^+$
	$C_{27}H_{56}NO_7P$	538.3873	0.1	2.27	LPC	19:0	$[M + H]^+$
LPE	$C_{27}H_{44}NO_7P$	524.2787	1.9	1.21	LPE	22:6	$[M-H]^{-}$
DI D	$C_{25}H_{44}NO_7P$	500.2798	4.2	1.25	LPE	20:4	$[M-H]^-$
SM	$C_{25}H_{44}VC_{7}I$ $C_{37}H_{75}N_2O_6P$	675.5440	-0.1	4.7	SM	14:0	$[M + H]^+$
3111	$C_{39}H_{77}N_2O_6P$	701.5564	-4.7	4.23	SM	16:1	$[M+H]^+$
		723.5447	0.9	4.23	SM	18:4	$[M+H]^+$
	$C_{41}H_{75}N_2O_6P$						
	$C_{38}H_{77}N_2O_6P$	689.5617	2.9	4.45	SM	15:0	$[M+H]^+$
	C ₃₉ H ₇₉ N ₂ O ₆ P	703.5767	1.9	4.78	SM	16:0	$[M+H]^+$
	$C_{41}H_{77}N_2O_6P$	725.5600	0.4	4.78	SM	18:3	$[M+H]^+$
	$C_{41}H_{81}N_2O_6P$	729.5917	0.9	4.89	SM	18:1	$[M + H]^+$
	$C_{43}H_{79}N_2O_6P$	751.5771	2.3	4.89	SM	20:4	$[M + H]^{+}$
	$C_{43}H_{81}N_2O_6P$	753.5944	4.5	5.39	SM	20:3	$[M+H]^+$
	$C_{40}H_{81}N_2O_6P$	717.5898	-1.8	5.71	SM	17:0	$[M + H]^{+}$
	$C_{47}H_{87}N_2O_6P$	807.6346	-4.2	5.96	SM	24:4	$[M + H]^+$
	$C_{43}H_{87}N_2O_6P$	759.6407	3.6	5.98	SM	20:0	$[M + H]^+$
	$C_{41}H_{83}N_2O_6P$	731.6089	3	6	SM	18:0	$[M + H]^+$
	$C_{47}H_{91}N_2O_6P$	811.6653	-4.9	6.02	SM	24:2	$[M + H]^+$
	$C_{49}H_{89}N_2O_6P$	833.6518	-2.2	6.02	SM	26:5	$[M + H]^+$
	$C_{47}H_{87}N_2O_6P$	807.6377	-0.3	6.03	SM	24:4	$[M + H]^+$
	$C_{45}H_{89}N_2O_6P$	785.6536	0	6.06	SM	22:1	$[M + H]^+$
	$C_{43}H_{85}N_2O_6P$	757.6225	0.1	6.12	SM	20:1	$[M + H]^+$
	$C_{37}H_{63}N_2O_6P$	663.4521	2.9	6.18	SM	14:6	$[M + H]^{+}$
	$C_{46}H_{91}N_2O_6P$	799.6657	-4.5	6.2	SM	23:1	$[M + H]^+$
	$C_{44}H_{89}N_2O_6P$	773.6563	3.5	6.24	SM	21:0	$[M + H]^+$
	$C_{46}H_{91}N_2O_6P$	799.6701	1	6.3	SM	23:1	$[M + H]^+$
	$C_{47}H_{93}N_2O_6P$	813.6838	-1.4	6.43	SM	24:1	$[M + H]^+$
	$C_{49}H_{91}N_2O_6P$	835.6685	-0.9	6.43	SM	26:4	$[M + H]^+$
	$C_{45}H_{91}N_2O_6P$	787.6719	3.3	6.44	SM	22:0	$[M + H]^+$
	$C_{47}H_{89}N_2O_6P$	809.6506	-3.7	6.44	SM	24:3	$[M + H]^+$
	$C_{47}H_{93}N_2O_6P$	813.6871	2.7	6.54	SM	24:1	$[M + H]^+$
	$C_{49}H_{91}N_2O_6P$	835.6672	-2.5	6.54	SM	26:4	$[M + H]^+$
	$C_{48}H_{95}N_2O_6P$	827.7049	5.2	6.57	SM	25:1	$[M + H]^+$
	$C_{46}H_{93}N_2O_6P$	801.6882	4.1	6.68	SM	23:0	$[M+H]^+$
	C ₄₈ H ₉₁ N ₂ O ₆ P	823.6712	2.3	6.7	SM	25:3	$[M+H]^+$
	C ₄₇ H ₉₅ N ₂ O ₆ P	815.7028	2.7	6.91	SM	24:0	$[M+H]^+$
	$C_{49}H_{93}N_2O_6P$	837.6869	2.4	6.92	SM	26:3	$[M+H]^+$
	$C_{45}H_{89}N_2O_6P$	785.6570	4.3	8.38	SM	22:1	$[M+H]^+$
	$C_{45}H_{89}N_2O_6P$ $C_{49}H_{95}N_2O_6P$	839.7038	3.8	8.72	SM	26:2	$[M+H]^+$
							$[M + H]^+$
	$C_{46}H_{93}N_2O_6P$	801.6851	0.2	8.78	SM	23:0	
	C ₄₉ H ₉₇ N ₂ O ₆ P	841.7189	3.2	8.9	SM	26:1	$[M+H]^+$
	$C_{53}H_{101}N_2O_6P$	893.7510	3.9	8.92	SM	30:3	$[M+H]^+$
	$C_{48}H_{97}N_2O_6P$	829.7124	-4.6	8.97	SM	25:0	$[M + H]^+$
	$C_{40}H_{75}N_2O_6P$	711.5465	3.4	9.11	SM	17:3	$[M + H]^+$

Table S1. Continued

lass	formula	m/z found	ppm	time (min)	provisional a	assignment class	ionization mo
	$C_{50}H_{99}N_2O_6P$	855.7324	0.6	9.21	SM	27:1	$[M + H]^+$
	$C_{52}H_{105}N_2O_6P$	885.7817	3.2	9.44	SM	29:0	$[M + H]^+$
	$C_{55}H_{109}N_2O_6P$	925.8089	-1.3	9.48	SM	32:1	$[M + H]^+$
'G	$C_{47}H_{89}NO_6$	764.6807	5.1	8.03	TG	44:2	$[M + NH_4]$
	$C_{49}H_{91}NO_{6}$	790.6967	5.3	8.11	TG	46:3	$[M + NH_4]$
	$C_{53}H_{95}NO_{6}$	842.7266	3.3	8.23	TG	50:5	[M + NH4]
	$C_{57}H_{99}NO_{6}$	894.7515	-4	8.23	TG	54:7	$[M + NH_4]$
	$C_{45}H_{89}NO_{6}$	740.6752	-2.1	8.24	TG	42:0	$[M + NH_4]$
	$C_{57}H_{99}NO_{6}$	894.7515	-4	8.25	TG	54:7	$[M + NH_4]$
	$C_{50}H_{93}NO_{6}$	804.7063	-2.2	8.25	TG	47:3	$[M + NH_4]$
	$C_{55}H_{97}NO_{6}$	868.7400	0.7	8.3	TG	52:6	$[M + NH_4]$
	$C_{47}H_{9}1NO_{6}$	766.6937	1.6	8.3	TG	44:1	$[M + NH_4]$
	$C_{49}H_{93}NO_6$	792.7114	4.2	8.3	TG	46:2	$[M + NH_4]$
	$C_{61}H_{101}NO_6$	944.7735	3	8.31	TG	58:10	$[M + NH_4]$
	$C_{51}H_{95}NO_6$	818.7251	1.7	8.33	TG	48:3	$[M + NH_4]$
	$C_{51}H_{95}NO_6$	818.7239	0.1	8.34	TG	48:3	[M + NH4]
	$C_{59}H_{101}NO_6$	920.7708	0.1	8.34	TG	56:8	[M + NH4]
	C ₄₆ H ₉₁ NO ₆	754.6968	5.8	8.36	TG	43:0	[M + NH4]
	C ₄₆ H ₉₁ NO ₆ C ₅₃ H ₉₇ NO ₆	844.7397	0.4	8.36	TG	50:4	[M + NH4]
	$C_{53}H_{97}NO_6$ $C_{53}H_{97}NO_6$	844.7397	0.4	8.39	TG	50:4	[M + NH4] $[M + NH4]$
		896.7740	3.7	8.41	TG	54:6	[M + NH4]
	$C_{57}H_{101}NO_6$		0.8		TG		[M + NH4] $[M + NH4]$
	C ₅₅ H ₉₉ NO ₆	870.7558		8.42		52:5	
	$C_{61}H_{103}NO_6$	946.7879	1.6	8.43	TG	58:9	$[M + NH_4]$
	$C_{50}H_{95}NO_6$	806.7217	-2.5	8.47	TG	47:2	$[M + NH_4]$
	C ₅₂ H ₉₇ NO ₆	832.7440	5.5	8.49	TG	49:3	$[M + NH_4]$
	$C_{59}H_{103}NO_6$	922.7908	4.8	8.54	TG	56:7	$[M + NH_4]$
	$C_{57}H_{101}NO_6$	896.7720	1.5	8.55	TG	54:6	$[M + NH_4]$
	C ₄₉ H ₉₅ NO ₆	794.7220	-2.2	8.57	TG	46:1	$[M + NH_4]$
	$C_{53}H_{99}NO_6$	846.7567	2	8.58	TG	50:3	$[M + NH_4]$
	$C_{51}H_{97}NO_6$	820.7375	-2.3	8.58	TG	48:2	$[M + NH_4]$
	$C_{55}H_{101}NO_6$	872.7720	1.5	8.62	TG	52:4	$[M + NH_4]$
	$C_{53}H_{99}NO_6$	846.7554	0.4	8.63	TG	50:3	$[M + NH_4]$
	$C_{57}H_{103}NO_6$	898.7861	-0.3	8.64	TG	54:5	$[M + NH_4]$
	$C_{48}H_{95}NO_{6}$	782.7242	0.6	8.65	TG	45:0	$[M + NH_4]$
	$C_{52}H_{99}NO_6$	834.7592	5	8.67	TG	49:2	$[M + NH_4]$
	$C_{54}H_{101}NO_6$	860.7722	1.8	8.7	TG	51:3	$[M + NH_4]$
	$C_{50}H_{97}NO_{6}$	808.7390	-0.5	8.7	TG	47:1	$[M + NH_4]$
	$C_{59}H_{105}NO_6$	924.8026	0.7	8.75	TG	56:6	$[M + NH_4]$
	$C_{49}H_{97}NO_6$	796.7368	-3.3	8.78	TG	46:0	$[M + NH_4]$
	$C_{51}H_{99}NO_{6}$	822.7565	1.8	8.79	TG	48:1	$[M + NH_4]$
	$C_{53}H_{101}NO_{6}$	848.7715	1	8.8	TG	50:2	$[M + NH_4]$
	$C_{55}H_{103}NO_6$	874.7885	2.5	8.82	TG	52:3	$[M + NH_4]$
	C ₅₈ H ₁₀₈ NO ₆	916.8366	3.6	8.82	TG	55:3	$[M + NH_4]$
	C ₆₁ H ₁₁₅ NO ₆	958.8865	6.5	8.82	TG	58:3	$[M + NH_4]$
	$C_{57}H_{105}NO_6$	900.8053	3.7	8.83	TG	54:4	$[M + NH_4]$
	$C_{54}H_{103}NO_6$	862.7913	5.8	8.92	TG	51:2	$[M + NH_4]$
	$C_{61}H_{109}NO_6$	952.8344	1.2	8.99	TG	58:6	$[M + NH_4]$
	$C_{51}H_{101}NO_6$	824.7726	2.3	8.99	TG	48:0	$[M + NH_4]$
	$C_{59}H_{107}NO_6$	926.8182	0.5	9	TG	56:5	$[M + NH_4]$
	$C_{59}H_{107}NO_6$ $C_{53}H_{103}NO_6$	850.7871	0.9	9	TG	50:1	[M + NH4]
		876.8063	4.9	9	TG		[M + NH4]
	$C_{55}H_{105}NO_6$					52:2 57:2	
	C ₆₀ H ₁₁₅ NO ₆	946.8836	3.6	9	TG	57:2	$[M + NH_4]$
	$C_{58}H_{11}NO_{6}$	918.8494	0.4	9.01	TG	55:2	$[M + NH_4]$

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Table S1. Continued

Table S1.	Continued						
class	formula	m/z found	ppm	time (min)	provisional	assignment class	ionization mode
	$C_{59}H_{109}NO_6$	928.8317	-1.7	9.02	TG	56:4	$\left[M+NH_4\right]^+$
	$C_{57}H_{107}NO_6$	902.8207	3.4	9.04	TG	54:3	$[M+NH_4]^+$
	$C_{51}H_{101}NO_6$	824.7700	-0.8	9.06	TG	48:0	$[M+NH_4]^+$
	$C_{54}H_{105}NO_6$	864.8056	4.2	9.07	TG	51:1	$[M+NH_4]^+$
	$C_{56}H_{107}NO_{6}$	890.8201	2.7	9.08	TG	53:2	$[M+NH_4]^+$
	$C_{54}H_{105}NO_6$	864.8061	4.8	9.12	TG	51:1	$[M+NH_4]^+$
	$C_{59}H_{111}NO_6$	930.8494	0.4	9.21	TG	56:3	$\left[M+NH_4\right]^+$
	$C_{55}H_{109}NO_6$	880.8375	4.8	9.21	TG	52:0	$\left[M+NH_4\right]^+$
	$C_{55}H_{107}NO_{6}$	878.8224	5.4	9.21	TG	52:1	$\left[M+NH_4\right]^+$
	$C_{54}H_{99}NO_{6}$	858.7546	-0.6	9.22	TG	51:4	$\left[M+NH_4\right]^+$
	$C_{57}H_{109}NO_6$	904.8358	2.8	9.22	TG	54:2	$[M + NH_4]^+$
	$C_{54}H_{107}NO_6$	866.8201	2.8	9.31	TG	51:0	$[M + NH_4]^+$
	$C_{59}H_{113}NO_6$	932.8600	1.4	9.45	TG	56:2	$[M+NH_4]^+$
	$C_{57}H_{111}NO_6$	906.8511	2.4	9.46	TG	54:1	$[M+NH_4]^+$
	$C_{58}H_{113}NO_6$	920.8690	4.8	9.52	TG	55:1	$[M+NH_4]^+$
	$C_{59}H_{115}NO_{6}$	934.8801	-0.2	9.59	TG	56:1	$\left[M+NH_4\right]^+$
	$C_{57}H_{113}NO_6$	908.8682	4	9.59	TG	54:0	$\left[M+NH_4\right]^+$
	$C_{60}H_{117}NO_{6}$	948.9012	5.6	9.7	TG	57:1	$\left[M+NH_4\right]^+$
	$C_{61}H_{113}NO_6$	956.8646	2.2	9.8	TG	58:4	$\left[M+NH_4\right]^+$
	$C_{56}H_{109}NO_6$	892.8337	0.4	9.9	TG	53:1	$[M+NH_4]^+$
	$C_{63}H_{121}NO_6$	988.9258	-1.4	9.93	TG	60:2	$[M+NH_4]^+$
	$C_{65}H_{123}NO_6$	1014.9415	-1.4	9.93	TG	62:3	$[\mathrm{M}+\mathrm{NH_4}]^+$
	$C_{62}H_{121}NO_6$	976.9298	2.7	9.95	TG	59:1	$[M+NH_4]^+$
	$C_{62}H_{123}NO_6$	978.9465	3.7	10.09	TG	59:0	$[\mathrm{M}+\mathrm{NH_4}]^+$
	$C_{65}H_{125}NO_6$	1016.9623	3.7	10.12	TG	62:2	$\left[M+NH_4\right]^+$
	$C_{63}H_{123}NO_6$	990.9436	0.7	10.12	TG	60:1	$\left[M+NH_4\right]^+$

 $[^]a$ The m/z of the most abundant ion, the mass error, retention time, provisional lipid assignment and the ionization mode (positive/negative) are given.

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