

Table S1. Phospholipid molecular species identified in the plasma of nude rats used in the present study (phosphatidylcholine (PC), lyso-PC (LPC), phosphatidylethanolamine (PE), lyso-PE (LPE), phosphatidylinositols (PI), phosphatidylserine (PS), and sphingomyelin (SM)).

Phospholipid Class	m/z	Retention Time	Phospholipid Specie
PC	816.5778	19.08	PC(34:2)
	868.6040	19.86	PC(38:4)
	840.5737	19.26	PC(36:4)
	844.6035	19.65	PC(36:2)
	842.5903	19.53	PC(36:3)
	818.5883	19.09	PC(34:1)
	868.5568	19.81	PCp(40:10)
	864.5747	19.99	PC(38:6)
	892.6048	19.64	PC(40:6)
	866.5910	19.96	PC(38:5)
	870.6209	19.01	PC(38:3)
	844.5501	19.72	PCp(38:8)
	950.6202	19.47	PCp(46:11)
	846.6240	19.74	PC(36:1)
	792.5719	19.47	PC(32:0)
	894.6207	19.68	PC(40:5)
	888.5756	19.52	PC(40:8)
	870.5661	19.91	PCp(40:9)
	890.5891	19.64	PC(40:7)
	922.5972	19.68	PCp(44:11)
	948.6042	19.46	PCp(46:12)
	820.6091	19.15	PC(34:0)
LPC	554.3439	22.48	LPC(16:0)
	582.3756	21.93	LPC(18:0)
	578.3443	22.30	LPC(18:2)
	602.3441	21.68	LPC(20:4)
	580.3624	22.11	LPC(18:1)
	626.3462	21.67	LPC(22:6)
	604.3588	21.78	LPC(20:3)
	552.3307	22.79	LPC(16:1)
PE	766.5380	7.55	PE(38:4)
	742.5367	7.84	PE(36:2)
	738.5096	7.83	PE(36:4)
	764.5207	7.69	PE(38:5)
	762.5075	7.72	PE(38:6)
	740.5248	7.88	PE(36:3)
	716.5242	8.04	PE(34:1)
	790.5375	7.55	PE(40:6)
	794.5686	7.75	PE(40:4)
	744.5538	7.86	PE(36:1)
	768.5529	7.69	PE(38:3)
	750.5412	7.55	PEo(38:5)
	722.5106	7.60	PEo(36:5)

	748.5272	7.54	PEo(38:6)
	714.5052	7.98	PEo(34:3)
	752.5589	7.68	PEo(38:4)
	778.5768	7.51	PEo(40:5)
	746.5134	7.61	PEo(38:7)
	780.5891	7.70	PEo(40:4)
	724.5274	7.81	PEo(36:4)
	774.5438	7.45	PEo(40:7)
	776.5590	7.62	PEo(40:6)
	726.5422	7.84	PEo(36:3)
	700.5226	7.99	PEo(34:2)
LPE	480.3105	10.55	LPE(18:0)
	452.2770	10.80	LPE(16:0)
	476.2780	10.71	LPE(18:2)
	500.2767	10.32	LPE(20:4)
	478.2921	10.61	LPE(18:1)
	524.2756	10.38	LPE(22:6)
PI	915.5980	4.28	PI(40:3)
	885.5496	5.23	PI(38:4)
	917.6110	4.23	PI(40:2)
	857.5156	5.33	PI(36:4)
	953.5180	4.15	PI(44:12)
	887.5594	5.31	PI(38:3)
	955.5335	4.17	PI(44:11)
	971.6600	3.56	PI(44:3)
	973.6766	3.56	PI(44:2)
	999.6964	3.65	PI(46:3)
	943.6281	3.56	PI(42:3)
	945.6456	3.57	PI(42:2)
	969.6376	4.21	PI(44:4)
	997.6681	3.86	PI(46:4)
	779.4702	3.68	PI(30:1)
PS	816.5727	18.09	PS(38:1)
	868.6040	16.86	PS(42:3)
	840.5737	17.26	PS(40:3)
	844.6035	17.65	PS(40:1)
	818.5883	18.06	PS(38:0)
	864.5747	16.99	PS(42:5)
	842.5903	17.53	PS(40:2)
	866.5910	16.96	PS(42:4)
	892.6048	16.64	PS(44:5)
	870.6209	17.01	PS(42:2)
	846.6240	17.74	PS(40:0)
	894.6207	16.68	PS(44:4)
	888.5756	16.52	PS(44:7)
	916.6055	15.85	PS(46:7)
	890.5891	16.64	PS(44:6)
SM	845.6754	20.93	SM(d40:1)
	871.6900	19.47	SM(d42:2)
	843.6597	20.96	SM(d40:2)
	761.5823	21.13	SM(d34:1)

763.5897	21.17	SM(d34:0)
787.5974	21.06	SM(d36:2)
789.6128	21.09	SM(d36:1)
791.4909	21.04	SM(d36:0)
817.6433	20.98	SM(d38:1)

Table S2. Peak area of each phospholipid species identified in the plasma of control rats (Ctr) and rats irradiated with UVA (increasing doses from 0.5 to 5 J/cm² for 4 weeks) or rats irradiated with UVB (increasing doses from 0.02 to 2 J/cm² for 4 weeks). These animals were not treated (Ctr, UVA, and UVB) or were treated topically with CBD (CBD, UVA+CBD, and UVB+CBD) (2.5 g CBD in 100 g petrolatum). Data obtained using MZmine software (XLSX).

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1		Name	1o	2o	3o	11o	12o	13o	21o	22o	23o	24o	25o	26o	31o	32o	33o	34o	35o	36o	41o	42o	43o	44o	45o	46o	51o
2		Label	.Ctr	.Ctr	.Ctr	.Ctr	.Ctr	.Ctr	.CBD	.CBD	.CBD	.CBD	.CBD	.UVA	.UVA	.UVA	.UVA	.UVA	.UVA	.UVA	.UVA+CBD	.UVA+CBD	.UVA+CBD	.UVA+CBD	.UVA+CBD	.UVA+CBD	.UVB
3	PC(34:2)	9.837206	6.397001	4.384955	9.616255	7.997729	10.65324	8.051368	10.01775	6.545828	8.774202	11.85447	12.57312	33.14828	26.94982	34.39174	24.342	26.58079	30.59181	10.70796	9.132756	11.28927	8.705639	9.891374	13.41753	23.75	
4	PC(38:4)	9.438334	8.41969	8.922986	9.226069	6.73442	9.491436	11.3674	8.36434	9.24179	11.9491	9.075207	10.82441	19.78598	16.08616	23.57916	27.57148	28.87821	19.22041	11.97407	9.849842	7.467128	9.735015	10.73764	13.69514	18.93	
5	PC(36:4)	6.254856	4.913335	1.573981	6.396456	5.085249	6.711187	6.197529	6.18051	5.038642	5.882101	8.292637	5.254707	21.17842	17.21823	18.72432	15.5768	18.27878	11.87649	6.721466	6.705061	4.489629	5.464606	6.88567	8.209818	10.85	
6	PC(36:2)	6.534269	6.394469	3.873896	2.920467	5.312414	1.666066	6.182242	4.215395	5.026213	3.883274	5.057836	9.798717	17.53081	14.25269	21.14495	11.94597	16.30759	22.58744	6.296938	4.17635	6.015001	5.114584	6.202147	6.205976	17.25	
7	PC(36:3)	2.367499	2.545238	1.338419	2.698337	1.924795	1.980446	2.553338	1.553325	2.075884	1.710502	2.705502	1.489102	8.998085	7.316915	9.973059	6.289589	6.302422	6.89102	2.69604	1.707867	2.389224	2.191902	1.737556	1.99454	8.2	
8	PC(36:1)	3.260962	3.473866	2.897432	2.463271	2.651188	2.60712	2.027237	2.341813	1.64816	1.873046	2.54048	3.120411	8.710135	7.081411	9.673774	5.94098	8.973093	5.70499	2.863173	3.053628	1.962558	2.327783	3.823568	2.719708	6.506	
9	PCp(40:10)	0.70118	0.289287	0.41554	0.657675	0.570065	0.797011	0.569457	0.479621	0.463006	0.577218	0.679325	0.541243	1.895047	1.540689	3.469478	0.960875	1.741747	2.122847	0.942874	0.756264	0.749503	0.766564	0.439946	0.618223	0.730	
10	PC(38:6)	1.640809	1.278705	1.580525	2.064542	1.333991	2.232492	2.077557	1.931642	1.689071	2.34824	2.303787	2.277186	5.777246	4.696948	6.712903	3.718098	4.885186	6.536865	2.572692	2.252668	1.753437	2.091619	2.056087	2.504664	5.785	
11	PC(40:6)	1.929715	1.723127	1.786073	1.108969	1.568874	1.692936	1.930315	0.688886	1.569362	1.83541	1.593233	1.365996	4.547674	6.97296	1.672125	3.256276	4.664495	4.47753	1.794699	1.810533	0.758692	1.459325	1.944066	1.629665	3.61	
12	PC(38:5)	1.286671	1.31518	1.444783	1.764225	1.046074	0.987262	1.487181	0.979405	1.20909	1.863058	1.39963	1.339822	7.220989	5.870723	4.96746	3.96566	6.208818	4.398293	2.331693	1.704553	1.252162	1.895685	1.440191	2.217263	5.568	
13	PC(38:3)	1.412542	0.936005	1.715383	1.254806	1.148408	1.302845	1.722236	1.25325	1.400192	1.726723	1.330062	1.750429	6.456182	5.248929	5.247377	4.713281	5.779728	5.804511	1.109625	1.281103	1.618487	0.899939	1.523886	1.977789	4.563	
14	PCp(38:8)	0.475191	0.162951	0.362156	0.747454	0.386334	0.656332	0.661239	0.122005	0.537593	0.099011	0.662452	0.40531	0.408402	0.372416	3.321001	0.382332	1.576617	2.439797	0.889105	0.767987	0.70708	0.722849	0.625581	0.707743	0.084	
15	PCp(46:11)	0.714939	0.671188	0.485489	0.589395	0.581251	0.537808	0.806606	0.683148	0.655778	0.533044	0.358363	0.532855	2.001417	1.627169	1.46215	2.805471	1.644574	1.029084	0.944056	0.957557	0.767525	0.531831	1.028246	2.151		
16	PC(36:1)	0.620611	0.865363	0.71161	0.695707	0.404562	0.51469	0.927725	0.725096	0.754248	1.132255	0.748499	1.142483	2.487193	2.022108	1.647118	2.673555	2.4992	3.795296	0.52175	0.966716	0.725182	0.848991	0.688663	1.016985	2.651	
17	PC(32:0)	0.73551	0.577063	0.589003	0.714636	0.597975	0.29705	0.727767	0.559581	0.59168	0.468016	1.313261	0.538424	0.835445	0.693858	1.983175	1.833962	1.950534	0.799554	0.504997	0.3721	0.269668	0.410567	0.511793	0.492088	1.336	
18	PC(40:5)	0.31673	0.693862	0.647676	0.689564	0.257504	0.567668	0.60376	0.236095	0.490862	0.857113	0.618971	0.689442	1.658086	1.348037	2.031196	1.255584	1.341603	1.608074	0.784728	0.954855	0.257888	0.63799	0.759937	0.649707	1.423	
19	PC(40:8)	0.43811	0.372598	0.236335	0.515501	0.356187	0.316759	0.302342	0.366689	0.245807	0.300335	0.579092	0.260599	1.196187	0.97251	1.105898	0.807384	0.769319	0.724417	0.408245	0.506945	0.258548	0.331907	0.319689	0.656387	0.721	
20	PCp(40:9)	0.157519	0.170993	0.127373	0.141065	0.128064	0.250533	0.186898	0.155357	0.15195	0.080314	0.27191	0.159425	0.625875	0.508841	0.981443	0.401055	0.709243	1.11219	0.34927	0.250851	0.042363	0.28396	0.177259	0.184468	0.31	
21	PC(40:7)	0.290945	0.240959	0.19473	0.286469	0.23654	0.178171	0.276922	0.107713	0.242514	0.245202	0.362884	0.255232	0.976195	0.793665	0.967512	0.4043675	0.852949	0.514063	0.349497	0.250182	0.13351	0.27229	0.360807	0.255354	0.815	
22	PCp(44:11)	0.221243	0.08132	0.147747	0.148346	0.179872	0.127688	0.178336	0.195577	0.144989	0.282801	0.096384	0.192736	0.485761	0.372977	0.267901	0.425244	0.514786	0.345023	0.171912	0.174082	0.283493	0.139766	0.12482	0.145127	1.110	
23	PCp(46:12)	0.099784	0.039105	0.08059	0.093299	0.081125	0.051096	0.046019	0.10939	0.037414	0.078915	0.094014	0.097251	0.466495	0.379265	0.299791	0.487491	0.196159	0.192242	0.128268	0.124254	0.122889	0.104283	0.093287	0.096616	0.842	
24	PC(34:0)	0.365986	0.291368	0.146577	0.243643	0.29755	0.310368	0.401932	0.132234	0.326774	0.303743	0.38802	0.254428	0.395871	0.321846	0.463346	0.872302	0.895371	0.594062	0.316818	0.407972	0.483996	0.257575	0.28748	0.387534	0.476	
25	PC(18:0)	8.510884	13.86919	13.00135	11.01073	6.919418	12.04277	17.75105	19.4225	11.17972	20.10037	9.749901	15.08484	56.41518	46.866	55.23348	72.01489	85.11445	82.41138	13.79757	13.0159	9.961463	11.21754	12.50427	18.67538	108.2	
26	PC(18:0)	8.004923	10.38019	5.752689	8.839418	6.500607	5.35755	7.905998	7.345667	6.427841	5.431131	5.988732	7.609278	66.0333	53.68561	35.12437	53.13466	78.10294	29.97122	8.223418	5.352836	7.008065	6.685705	6.582773	7.935559	32.03	
27	PC(18:2)	10.60326	4.801017	3.959165	5.491856	8.620615	5.795594	1.841117	9.441437	6.624485	5.296626	5.53466	5.191186	34.13928	27.75551	43.07199	46.95427	41.75653	58.41582	7.640823	7.730973	4.486279	6.219368	6.751866	4.497195	41.42	
28	PC(20:4)	3.81044	3.644392	2.989546	2.366538	3.097919	5.251248	2.525508	4.807424	2.053259	3.471776	3.556006	3.508554	27.63692	22.46904	18.66507	21.24294	33.12887	16.87548	1.554214	0.512596	4.860208	1.263588	5.330685	4.864097	18.71	
29	PC(18:1)	2.226335	3.179634	1.557195	2.661044	1.810191	1.877929	2.598566	2.500236	2.112655	2.084057	2.039464	15.18421	12.34488	10.40648	11.63918	17.978	6.451567	2.516849	2.221299	1.973007	2.064219	1.897337	1.851026	8.681		
30	PC(22:6)	0.45325	0.287871	0.302181	0.576259	0.368496	0.477151	0.310198	0.253407	0.252193	0.271459	0.468125	0.260768	1.561675	1.188354	1.996312	0.960221	2.325631	1.88026	0.347838	0.401174	0.224535	0.282795	0.358683	0.359199	1.730	
31	PC(20:2)	0.546063	0.470213	0.308665	0.275912	0.443954	0.486353	0.501696	0.519285	0.407883	0.319482	0.407158	0.551121	2.386996	1.940647	1.863977	2.632198	2.415892	2.317427	0.335035	0.323333	0.409142	0.727386	0.340445	0.398172	2.946	
32	PC(16:1)	0.495575	0.343536	0.333487	0.451843	0.402907	0.426182	0.361541	0.412354	0.293935	0.425325	0.305206	0.276085	2.250728	3.775068	2.314408	2.568495	1.591259	0.497615	0.335889	0.779089	0.404565	0.525808	0.382035	2.7		
33	PC(18:0)	0.619557	0.60012	0.575208	1.226991	0.503705	0.63966	0.846821	0.818626	0.688472	0.510407	1.050201	0.383867	2.076121	1.687904	2.611748	2.427076	2.636617	1.993515	0.649461	0.566246	0.893772	0.906019	0.950792	0.487465	9.343	
34	PC(18:0)	0.732679	0.96495	0.86658	1.009179	0.595674	0.823919	0.798258	0.610766	0.64899	1.002178	1.301192	0.920236	1.383569	2.588267	1.803002	1.615653	2.150394	1.202649	0.530383	0.941286	0.7592	0.530961	1.130581	1.656742	13.26	
35	PC(18:2)	1.194542	1.454029	0.400302	1.17627	0.971173	0.698889	0.695256	0.999235	0.53598	1.215905	0.814928	0.870249	2.002884	1.628361	1.579616	1.521757	2.771033	2.812783	0.869792	0.878183	1.069519	0.701748	1.144322	0.97244	8.774	
36	PC(20:4)	0.642579	0.39591																								

	564.5263	32.75	Cer(d18:1/18:1)
	538.5122	32.65	Cer(d18:1/16:0)
	536.4963	43.99	Cer(d18:2/16:0)
	678.6637	47.45	Cer(d18:1/26:0)
CER[NDS]	554.5405	37.44	Cer(d18:0/17:0)
	540.5259	33.56	Cer(d18:0/16:0)
	680.6856	30.41	Cer(d18:0/26:0)
	566.5446	34.99	Cer(d18:0/18:1)
	568.5581	38.40	Cer(d18:0/18:0)

Table S4. Peak area of each ceramide molecular species identified in the plasma of control rats (Ctr) and rats irradiated with UVA (increasing doses from 0.5 to 5 J/cm² for 4 weeks) or rats irradiated with UVB (increasing doses from 0.02 to 2 J/cm² for 4 weeks). These animals were not treated (Ctr, UVA, and UVB) or were treated topically with CBD (CBD, UVA+CBD, and UVB+CBD) (2.5 g CBD in 100 g petrolatum). Data obtained using MZmine software (XLSX).

1	Name	10	20	30	110	120	130	210	220	230	240	250	260	310	320	330	340	350	360	410	420	430	440	450	460	470	480	490	510	520	530	540	550	560	570
2	Label	Ctr	Ctr	Ctr	Ctr	Ctr	Ctr	CBD	CBD	CBD	CBD	CBD	CBD	UVA	UVA	UVA	UVA	UVA	UVA	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD	UVA+CBD
3	Cer(d18:1)	11.62426	8.135491	8.987558	9.734122	9.097209	15.4361	15.01989	14.63373	13.47437	13.77887	13.67499	14.48629	58.85269	49.93842	48.30564	56.58019	32.82969	58.66906	51.13448	51.55836	55.72251	42.77842	52.45776	40.38687	82.05									
4	Cer(d18:1)	7.649239	6.019076	6.002317	7.078953	6.839227	13.32125	15.0881	13.69995	9.981318	11.58691	10.09603	10.5897	43.40452	42.27	40.38274	46.5061	41.62539	53.47418	38.60893	38.98283	45.16028	31.16958	44.58636	22.54558	57.7									
5	Cer(d18:1)	7.25452	10.64677	9.75454	9.262418	9.768737	14.2589	12.88261	12.13081	10.95769	11.56596	10.85961	10.39177	46.44171	45.58614	41.49969	42.343	47.5092	50.80005	43.57766	42.69519	48.46105	35.20489	48.81669	39.4101	66.58									
6	Cer(d18:1)	0.388286	0.807452	1.02637	0.872938	1.015711	1.265874	1.372659	3.076993	2.550706	1.617967	2.21546	1.82817	4.945038	5.312668	6.667637	11.92274	9.983164	7.385063	8.293699	6.112448	9.390202	6.537943	8.11347	11.18589	7.657									
7	Cer(d18:1)	1.111631	1.035518	0.797489	0.825497	0.934621	0.805194	0.952223	2.334299	0.681841	1.024074	1.809735	0.763522	3.54225	1.902048	4.011505	5.292147	7.52076	3.409727	3.347816	3.258527	3.217286	2.589437	3.162535	5.05626	3.343									
8	Cer(d18:2)	0.046175	0.093204	0.093844	0.071074	0.090439	0.235822	0.161495	0.802606	0.464565	0.575878	0.630529	0.59164	1.037223	1.46342	2.100344	2.149992	1.929466	1.133419	1.179221	2.596985	0.808809	0.91118	2.682817	2.247537	3.30									
9	Cer(d18:1)	1.181001	1.799172	1.920438	1.251335	1.122867	1.106111	1.128936	1.1375	0.940059	0.997248	1.475255	0.826238	3.859802	3.657642	3.352913	3.731923	3.861274	4.536818	3.535534	3.308673	4.043453	2.784467	4.107981	3.164308	5.275									
10	Cer(d18:1)	1.255198	0.767629	0.931328	0.604325	0.895632	0.707076	0.969971	0.825565	0.883453	0.534634	0.668771	0.44733	2.914317	2.196181	2.279882	3.075599	3.252096	3.775086	2.94333	2.052017	2.015304	1.994718	2.672362	2.089311	3.265									
11	Cer(d16:1)	1.255198	0.767629	0.931328	0.604325	0.895632	0.707076	0.969971	0.825565	0.883453	0.534634	0.668771	0.44733	2.914317	2.196181	2.279882	3.075599	3.252096	3.775086	2.94333	2.052017	2.015304	1.994718	2.672362	2.089311	3.265									
12	Cer(d18:2)	0.925617	0.833924	1.024789	1.088655	1.015376	0.472965	0.642569	0.64479	0.605558	0.46704	0.504686	0.550222	1.93247	1.129031	1.92366	1.959216	1.888306	2.56881	1.815982	2.20736	1.403373	1.880736	2.205247	1.722829	2.056									
13	Cer(d18:2)	0.844869	1.027356	1.044441	1.113163	1.031892	0.602019	0.643037	0.766054	0.64595	0.601891	0.737789	0.532732	1.251085	2.108829	1.929832	1.68479	2.404248	1.636603	1.265518	1.52798	2.355086	1.099261	2.486304	1.411292	0.856									
14	Cer(d15:2)	0.083642	0.043075	0.07653	0.061984	0.05483	0.029026	0.145212	0.120732	0.109767	0.161873	0.202718	0.146324	1.186147	0.183648	0.484681	0.804425	0.518314	0.719274	0.354332	0.609353	0.392085	0.188819	0.331734	0.611617	0.83									
15	Cer(d18:2)	0.096527	0.165662	0.304809	0.207374	0.078942	0.130999	0.123134	0.203292	0.185235	0.266552	0.120722	0.156464	1.171448	1.282656	1.176023	1.482169	1.086405	1.619941	1.268371	1.198753	1.065941	1.371777	1.518036	1.289972	1.318									
16	Cer(d18:1)	0.060493	0.048245	0.057495	0.032868	0.044582	0.050959	0.049324	0.092356	0.062966	0.071468	0.073865	0.081286	4.277184	6.611645	6.151194	12.93285	12.09134	5.425137	6.396565	4.591862	9.599628	4.062732	2.85715	0.174575	13.74									
17	Cer(d16:1)	0.012897	0.010794	0.059464	0.011239	0.019863	0.053409	0.204807	0.323062	0.212093	0.244679	0.125795	0.18334	1.345407	1.283905	0.657517	1.320049	0.762308	1.051216	0.658796	0.873893	0.995713	0.726658	1.056667	0.408297	1.466									
18	Cer(d16:1)	0.030839	0.012988	0.025376	0.032109	0.017035	0.018346	0.032647	0.067622	0.053476	0.057224	0.050122	0.060428	0.195442	0.058606	0.14664	0.063655	0.083928	0.164053	0.081046	0.209741	0.231778	0.074103	0.08146	0.233	0.205									
19	Cer(d18:2)	0.178403	0.071165	0.169815	0.066694	0.097142	0.219677	0.097406	0.095455	0.102628	0.148016	0.142543	0.160027	0.25428	0.224579	0.481043	0.234168	0.297869	0.213642	0.761081	0.581995	0.62087	0.512632	0.376224	0.60115	0.484									
20	Cer(d18:1)	0.079141	0.147017	0.134034	0.148992	0.080204	0.054366	0.054801	0.056474	0.015368	0.253746	0.041201	0.16736	0.139975	0.137583	0.188093	1.528353	0.306188	0.263358	0.507784	0.675477	0.180978	0.639374	0.164416	0.184533	0.507									
21	Cer(d18:2)	0.088056	0.056026	0.022077	0.041745	0.036674	0.121159	0.067808	0.073904	0.072879	0.091724	0.058746	0.061988	0.388996	0.281331	0.292003	0.807293	0.269732	0.452427	0.258353	0.218399	0.429738	0.22761	0.333492	0.275993	0.472									
22	Cer(d18:1)	0.007566	0.014105	0.038701	0.015902	0.024511	0.015459	0.016341	0.063871	0.050404	0.066909	0.035512	0.0296	0.32528	0.298894	0.19509	0.315926	0.201989	0.22777	0.171361	0.214601	0.228041	0.182093	0.229294	0.103452	0.308									
23	Cer(d18:1)	0.048837	0.014511	0.070551	0.045789	0.023755	0.028266	0.072348	0.072679	0.155169	0.037588	0.07399	0.034796	0.09476	0.156832	0.457984	0.476517	0.22263	0.188301	0.653344	0.525033	0.191627	0.140638	0.143019	0.224695	0.835									
24	Cer(d18:2)	0.007876	0.002398	0.004023	0.001856	0.001736	0.006089	0.001806	0.001278	0.002677	0.001224	0.002168	0.00385	0.014151	0.007383	0.028038	0.008123	0.009857	0.009991	0.003095	0.009092	0.010013	0.003095	0.00474	0.009148	0.028									
25	Cer(d18:1)	0.205937	0.260205	0.237428	0.383394	0.257679	0.31293	0.199809	0.256002	0.116401	0.079276	0.14306	0.127542	1.109146	1.166699	1.245286	1.142001	1.135077	1.2295	1.448888	1.659591	0.722376	1.418106	1.07959	1.979653	1.886									
26	Cer(d18:0)	0.274117	0.157318	0.291927	0.308345	0.327376	0.417291	0.48793	0.474596	0.320878	0.383923	0.270977	0.398053	2.387921	2.31272	2.331158	1.38347	1.328313	1.463094	1.225003	1.226161	1.392787	1.236607	1.300901	1.193097	2.395									
27	Cer(d18:0)	5.816009	4.39247	3.723813	5.600898	6.299752	3.50183	3.477915	4.471185	3.447409	3.488244	3.091348	2.062756	35.37427	23.83185	31.75234	35.88916	33.87854	32.88428	35.11092	17.79344	25.32385	17.03022	19.47883	21.20143	35.44									
28	Cer(d18:0)	0.4153	0.187031	0.4378	0.242208	0.386725	0.436907	0.426909	0.300632	0.411392	0.354069	0.214041	0.287158	1.639221	1.392038	1.559152	1.199281	1.489182	2.049943	1.488215	1.7839	1.411959	1.051249	1.160976	1.811442	1.681									
29	Cer(d18:0)	0.236046	0.178601	0.318956	0.224227	0.078942	0.130999	0.123134	0.203292	0.185235	0.266552	0.120722	0.156464	1.607582	2.885977	1.71051	7.83488	1.944121	1.835867	0.551278	2.221933	2.388367	0.836498	1.165582	2.024983	1.318									
30	Cer(d18:0)	1.733122	0.905878	0.804107	1.230249	1.342864	2.394131	7.716897	6.039291	5.063963	4.314405	4.183016	3.608685	21.96445	8.30368	14.31165	9.084843	17.22033	21.05385	23.10031	22.17474	23.02981	22.40714	21.93936	22.17691	20.85									

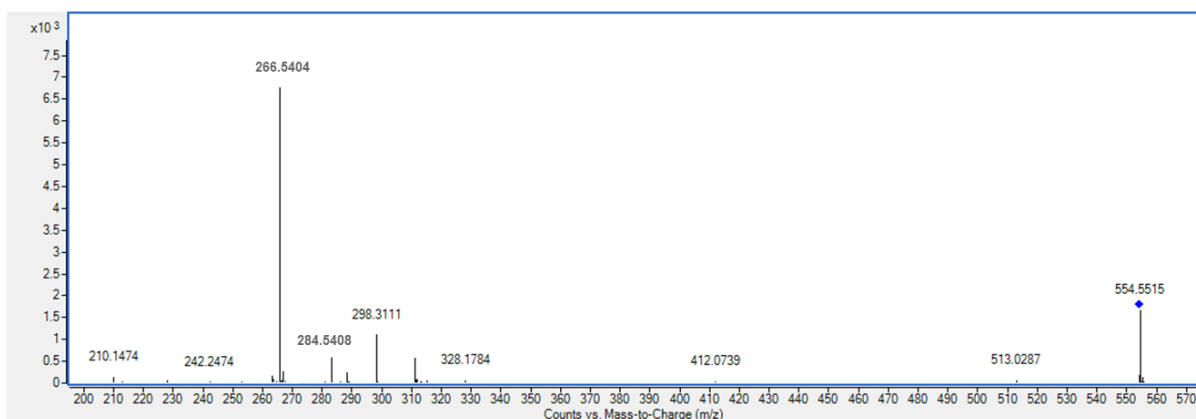


Figure S1. ESI-MS/MS spectrum of the [M+H]⁺ ion of Cer(d18:0/17:0) [m/z 554.5515; RT 37.44 min]. Characteristic fragment ions are: m/z 266.5404 corresponding to [M+H]⁺-FA-2H₂O and m/z 284.5408 corresponding to [M+H]⁺-FA-H₂O.

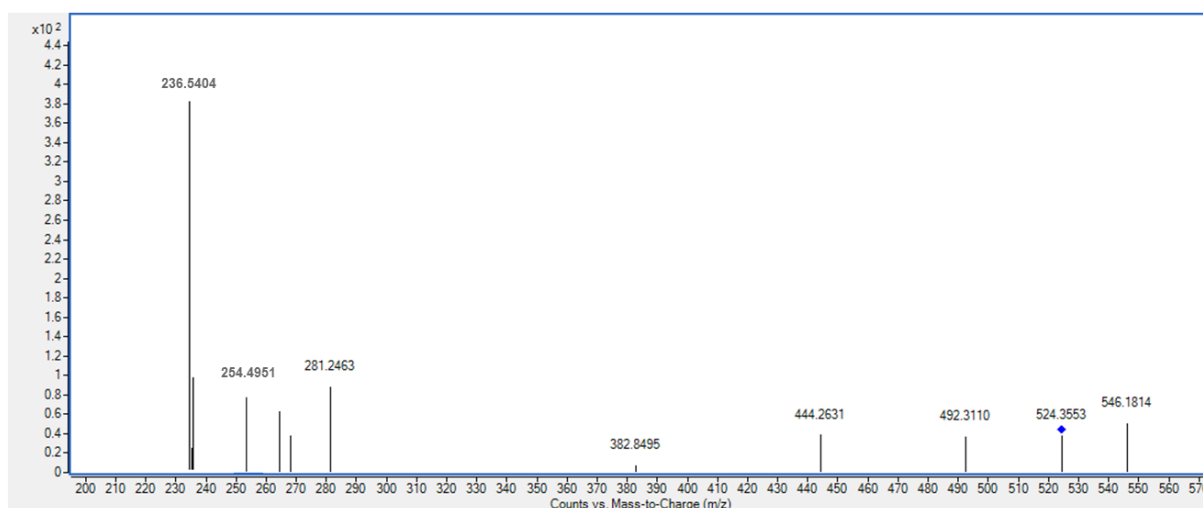


Figure S2. ESI-MS/MS spectrum of the $[M+H]^+$ ion of Cer(d16:1/17:0) [m/z 524.3553; RT 33.02 min]. Characteristic fragment ions are: m/z 236.5404 corresponding to $[M+H]^+-FA-2H_2O$ and m/z 254.4951 corresponding to $[M+H]^+-FA-H_2O$.

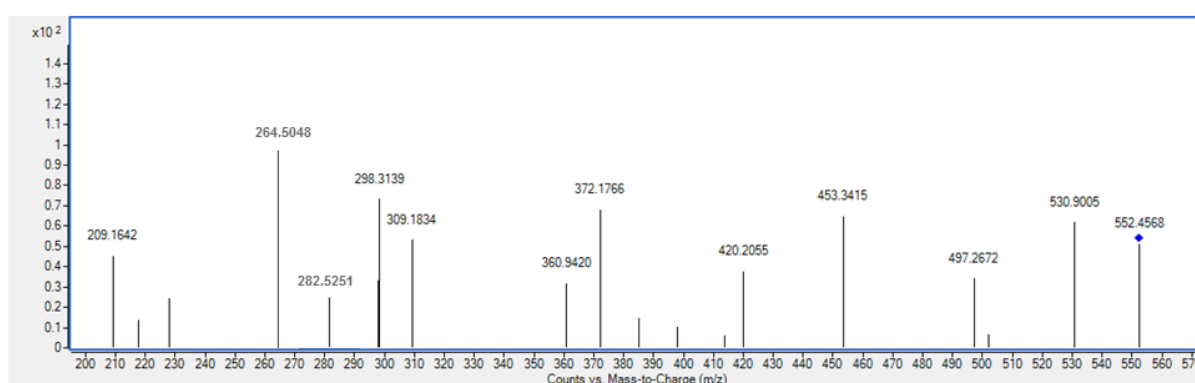


Figure S3. ESI-MS/MS spectrum of the $[M+H]^+$ ion of Cer(d18:1/17:0) [m/z 552.4568; RT 37.18 min]. Characteristic fragment ions are: m/z 264.5048 corresponding to $[M+H]^+-FA-2H_2O$ and m/z 282.5251 corresponding to $[M+H]^+-FA-H_2O$.

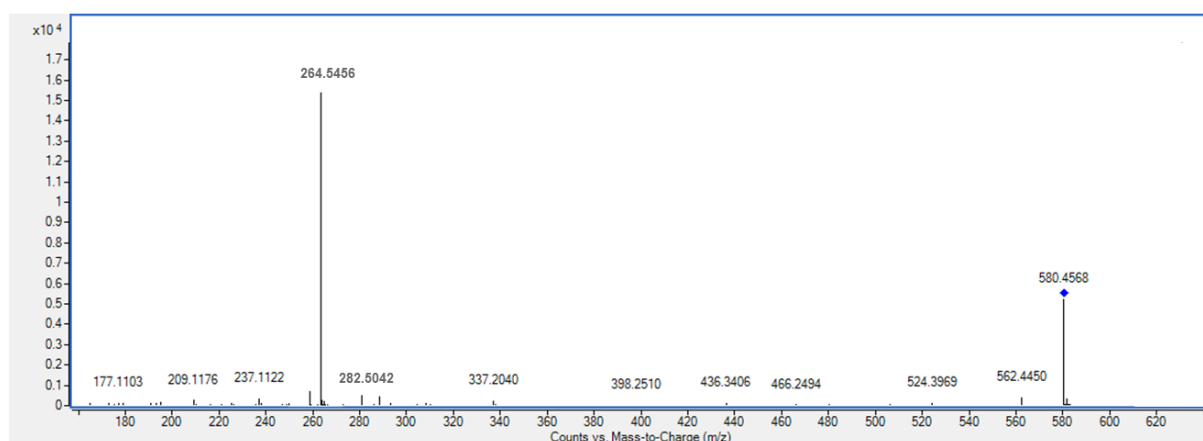


Figure S4. ESI-MS/MS spectrum of the $[M+H]^+$ ion of Cer(d18:1/19:0) [m/z 580.4568; RT 41.68 min]. Characteristic fragment ions are: m/z 264.5456 corresponding to $[M+H]^+-FA-2H_2O$ and m/z 282.5042 corresponding to $[M+H]^+-FA-H_2O$.