

Supporting Information

Table 1. Phosphatidylethanolamine (PE) species identified in the gastrocnemius of LDLR KO male mice fed either the normal sodium (NS; n = 7) or the low-sodium diet (LS; n = 7). Part 1.

	NS	LS	P
PE (16:0/18:1)	0.2660	± 0.043	0.3312
PE (16:0/18:2)	0.5750	± 0.161	0.5337
PE (16:0/20:3)	0.1177	± 0.030	0.0769
PE (16:0/22:4)	0.9157	± 0.220	0.7426
PE (16:0/20:4)	1.0722	± 0.283	1.0567
PE (16:0/22:6)	9.9811	± 2.000	10.5588
PE (16:0/22:5)	1.4665	± 0.334	1.4272
PE (16:1/18:0)	0.2301	± 0.061	0.1655
PE (16:1/22:6)	0.5409	± 0.089	0.5190
PE (17:0/22:6)	0.3807	± 0.076	0.3498
PE (18:0/18:1)	0.4524	± 0.567	0.4462
PE (18:0/18:2)	1.1170	± 0.302	1.0181
PE (18:0/20:3)	0.1588	± 0.040	0.1582
PE (18:0/22:4)	0.4470	± 0.112	0.4340
PE (18:0/20:4)	2.9129	± 0.728	2.8888
PE (18:0/22:6)	18.6180	± 3.420	20.3365
PE (18:0/22:5)	3.1309	± 0.580	3.2288
PE (18:1/18:1)	0.2449	± 0.067	0.3274
PE (18:1/18:2)	0.3795	± 0.132	0.3642
PE (18:1/24:0)	0.8638	± 0.020	0.0755
PE (18:1/20:4)	1.6324	± 0.359	1.7087
PE (18:1/22:6)	5.6297	± 1.250	5.5887
PE (18:1/22:5)	0.5764	± 0.092	0.4502
PE (18:2/18:2)	0.1487	± 0.050	0.1426
PE (18:2/20:4)	3.3875	± 0.554	2.8658
PE (18:2/22:6)	2.0812	± 0.438	1.9399
PE (18:2/22:5)	0.0867	± 0.019	0.0919
PE (19:0/22:6)	0.1205	± 0.020	0.1534
PE (20:1/22:6)	0.1607	± 0.036	0.1731
PE (22:4/22:6)	1.1434	± 0.221	0.8747
PE (20:4/22:6)	0.19551	± 0.026	0.1416
PE (22:5/22:6)	0.1532	± 0.021	0.1475

Table 2. Plasmenil Phosphatidylethanolamine (PE) species identified in the gastrocnemius of LDLR KO male mice fed either the normal sodium (NS; n = 7) or the low-sodium diet (LS; n = 7).

	NS		LS		P
<u>pPE (p16:0/18:1)</u>	0.4826	± 0.066	0.5527	± 0.045	0.160
<u>pPE (p16:0/22:4)</u>	0.3978	± 0.077	0.3537	± 0.013	0.523
<u>pPE (p16:0/20:4)</u>	0.7108	± 0.178	0.7169	± 0.036	0.898
<u>pPE (p16:0/22:6)</u>	10.5008	± 2.560	10.2824	± 0.834	1.000
<u>pPE (p16:0/22:5)</u>	1.5650	± 0.377	1.6925	± 0.113	0.609
<u>pPE (p17:0/18:1)</u>	0.0903	± 0.023	0.1083	± 0.009	0.523
<u>pPE (p18:0/18:1)</u>	0.4128	± 0.477	2.8373	± 0.264	0.011
<u>pPE (p18:0/22:4)</u>	0.4487	± 0.128	0.3978	± 0.022	0.443
<u>pPE (p18:0/20:4)</u>	0.6119	± 0.142	0.5925	± 0.0336	1.000
<u>pPE (p18:0/22:6)</u>	3.5425	± 0.830	3.8973	± 0.223	0.443
<u>pPE (p18:0/22:5)</u>	0.6468	± 0.153	0.7967	± 0.039	0.371
<u>pPE (p18:0:1/16:0)</u>	0.6299	± 0.159	0.6005	± 0.045	0.250
<u>pPE (p18:0:1/18:1)</u>	3.2096	± 0.653	3.3515	± 0.299	0.701
<u>pPE (p18:0:1/18:2)</u>	0.2228	± 0.052	0.2395	± 0.015	0.523
<u>pPE (p18:0:1/20:4)</u>	0.0473	± 0.014	0.0559	± 0.012	0.523
<u>pPE (p18:0:1/22:6)</u>	2.6674	± 0.574	2.6973	± 0.201	1.000
<u>pPE (p18:0:1/22:5)</u>	0.2652	± 0.055	0.2857	± 0.020	0.701
<u>pPE (p18:0:2/18:1)</u>	0.3060	± 0.090	0.3371	± 0.029	0.609
<u>pPE (p18:0:2/22:6)</u>	0.4162	± 0.157	0.4589	± 0.046	1.000
<u>pPE (p20:0/22:6)</u>	0.1266	± 0.041	0.1213	± 0.009	0.898

Table 3. Phosphatidylglycerine (PG) species identified in the gastrocnemius of LDLR KO male mice fed either the normal sodium (NS; n = 7) or the low-sodium diet (LS; n = 7).

	NS		LS		P
<u>PG (16:0/18:1)</u>	0.2541	± 0.063	0.3719	± 0.018	0.307
<u>PG (16:0/18:2)</u>	0.0440	± 0.012	0.0571	± 0.002	0.609
<u>PG (16:0/20:4)</u>	0.0156	± 0.003	0.0159	± 0.002	0.609
<u>PG (16:1/18:1)</u>	0.0051	± 0.000	0.0067	± 0.0004	0.097
<u>PG (18:0/18:1)</u>	0.3313	± 0.066	0.3662	± 0.021	0.701
<u>PG (18:0/18:2)</u>	0.2119	± 0.057	0.2283	± 0.081	1.000
<u>PG (18:1/18:2)</u>	0.0499	± 0.014	0.0401	± 0.004	0.898

Table 4. Sphingomyelin (SM) species identified in the gastrocnemius of LDLR KO male mice fed either the normal sodium (NS; n = 7) or the low-sodium diet (LSD; n = 7).

	NS		LS		P
<u>SM (d18:0/16:0)</u>	0.0349	± 0.003	0.0325	± 0.004	0.701
<u>SM (d18:1/16:0)</u>	0.3646	± 0.047	0.3721	± 0.044	0.443
<u>SM (d18:1/18:0)</u>	1.5587	± 0.190	1.7683	± 0.136	0.443
<u>SM (d18:1/20:0)</u>	0.2046	± 0.035	0.2388	± 0.026	0.701
<u>SM (d18:1/22:0)</u>	0.5580	± 0.115	0.6716	± 0.062	0.798
<u>SM (d18:1/22:1)</u>	0.0609	± 0.010	0.0642	± 0.007	0.523
<u>SM (d18:1/23:0)</u>	0.1566	± 0.021	0.1609	± 0.017	0.609
<u>SM (d18:1/24:0)</u>	0.6884	± 0.132	0.7956	± 0.087	0.701
<u>SM (d18:1/24:1)</u>	1.3333	± 0.265	1.3824	± 0.161	0.898
<u>SM (d18:1/24:2)</u>	0.1794	± 0.034	0.1872	± 0.027	0.701

Table 5. Ceramide (Cer) species identified in the gastrocnemius of LDLR KO male mice fed either the normal sodium (NS; n = 7) or the low-sodium diet (LS; n = 7). Part 1.

	NS		LS		P
1G-Cer (d18:0/20:1-OH)	0.0300	± 0.004	0.0325	± 0.003	0.523
1G-Cer (d18:0/22:0-OH)	0.0303	± 0.0004	0.0334	± 0.0002	0.307
1G-Cer (d18:0/22:1-OH)	0.1615	± 0.027	0.1579	± 0.022	0.701
1G-Cer (d18:0/23:1-OH)	0.0112	± 0.001	0.0097	± 0.001	0.798
1G-Cer (d18:0/24:0-OH)	0.0111	± 0.001	0.0130	± 0.001	0.371
1G-Cer (d18:0/24:1-OH)	0.2865	± 0.043	0.2924	± 0.036	0.609
1G-Cer (d18:0/24:2-OH)	0.0215	± 0.003	0.0195	± 0.002	0.609
1G-Cer (d18:1/22:0-OH)	0.0014	± 0.0004	0.0011	± 0.0002	0.307
1G-Cer (d18:1/23:0-OH)	0.0031	± 0.0006	0.0034	± 0.0005	0.609
1G-Cer (d18:0/24:0)	0.0105	± 0.002	0.0110	± 0.001	0.701
1G-Cer (d18:1/20:0)	0.0101	± 0.001	0.0100	± 0.001	0.701
1G-Cer (d18:1/22:0)	0.0359	± 0.005	0.0328	± 0.005	0.523
1G-Cer (d18:1/23:0)	0.0145	± 0.002	0.0119	± 0.002	0.523
1G-Cer (d18:1/24:0)	0.2028	± 0.032	0.1751	± 0.030	0.701
1G-Cer (d18:1/24:1)	0.1070	± 0.017	0.0970	± 0.016	0.523
1G-Cer (d18:1/24:2)	0.0103	± 0.0017	0.0092	± 0.001	0.798
Sulfatide Cer (d18:1/18:0)	0.0036	± 0.0005	0.0038	± 0.0005	0.125
Sulfatide Cer (d18:1/20:0)	0.0021	± 0.0003	0.0028	± 0.0005	0.097
Sulfatide Cer (d18:1/22:0)	0.0060	± 0.001	0.0060	± 0.0008	0.701
Sulfatide Cer (d18:1/23:0)	0.0019	± 0.0004	0.0021	± 0.0002	0.443

Table 5. Ceramide (Cer) species identified in the gastrocnemius of LDLR KO male mice fed either the normal sodium (NS; n = 7) or the low-sodium diet (LS; n = 7). Part 2.

	NS		LS		P
Sulfatide Cer (d18:1/24:0)	0.0355	± 0.005	0.0311	± 0.005	0.701
Sulfatide Cer (d18:1/24:1)	0.0361	± 0.007	0.0321	± 0.005	0.798
Sulfatide Cer (d18:2/24:1)	0.0042	± 0.001	0.0046	± 0.0008	0.307
Sulfatide Cer (d18:1/22:0-OH)	0.0030	± 0.0008	0.0045	± 0.0005	0.201
Sulfatide Cer (d18:1/24:0-OH)	0.0050	± 0.001	0.0063	± 0.0006	0.250
Cer (d18:1/18:0)	0.2088	± 0.040	0.2663	± 0.015	0.443
Cer (d18:1/22:0)	0.0088	± 0.001	0.0112	± 0.0007	0.250
Cer (d18:1/24:0)	0.0093	± 0.002	0.0119	± 0.001	0.160
Cer (d18:1/24:1)	0.0231	± 0.004	0.02652	± 0.002	0.609
Cer (d18:1/24:2)	0.0043	± 0.001	0.00499	± 0.0006	0.201

Table 6. Diacylglycerol (DG) species identified in the gastrocnemius of LDLR KO male mice fed either the normal sodium (NS; n = 7) or the low-sodium diet (LS; n = 7)

	NS		LS		P
DG (16:1/18:1)	2.6338	± 0.339	3.6384	± 0.366	0.250
DG (18:2/18:2)	0.9752	± 0.259	1.1888	± 0.216	0.609
DG (18:1/18:2)	3.4143	± 0.524	4.4584	± 0.490	0.371
DG (18:1/18:1)	1.8148	± 0.223	1.9748	± 0.207	0.701

Table 7. Triglycerides (TG) species identified in the gastrocnemius of LDLR KO male mice fed either the normal sodium (NS; n = 7) or the low-sodium diet (LS; n = 7). Part 1.

	NS		LS		P
TG (12:0/16:1/18:2)	0,0687	± 0.025	0,0759	± 0.013	1.000
TG (14:0/16:0/16:1)	0,3146	± 0.220	0,3466	± 0.044	0.798
TG (14:0/16:0/18:1)	0,2417	± 0.319	0,5257	± 0.122	0.898
TG (14:0/16:1/18:1)	0,3945	± 0.221	0,4286	± 0.066	0.609
TG (14:0/16:1/16:1)	0,6152	± 0.264	0,7356	± 0.085	0.443
TG (14:0/18:1/18:1)	0,5218	± 0.751	1,6342	± 0.382	0.898
TG (14:0/18:2/18:2)	0,6987	± 0.212	0,9470	± 0.130	0.943
TG (14:1/16:0/16:1)	0,0147	± 0.031	0,0678	± 0.016	1.000
TG (14:1/16:1/18:1)	0,3803	± 0.166	0,5099	± 0.060	0.371
TG (14:1/16:1/18:2)	0,5051	± 0.133	0,6282	± 0.075	0.609
TG (14:1/16:1/16:1)	0,2456	± 0.079	0,2996	± 0.043	0.523
TG (14:1/18:2/18:2)	0,6413	± 0.144	0,8332	± 0.105	0.307
TG (15:0/16:1/18:1)	0,0565	± 0.018	0,0534	± 0.006	0.898
TG (15:0/16:1/18:2)	0,1142	± 0.041	0,1352	± 0.013	0.898
TG (15:0/18:1/18:2)	0,2680	± 0.103	0,3604	± 0.043	0.701
TG (15:0/18:1/18:1)	0,0341	± 0.052	0,1123	± 0.024	0.701
TG (15:0/18:2/18:2)	0,0312	± 0.006	0,0291	± 0.005	1.000
TG (16:0/16:1/17:1)	0,0183	± 0.075	0,1935	± 0.022	0.701
TG (16:0/16:1/18:1)	4,3697	± 2,120	6,6899	± 0,833	0,609
TG (16:0/16:1/22:6)	0,1552	± 0,046	0,2200	± 0,029	0,701
TG (16:0/16:1/16:1)	1,6426	± 0,748	2,2424	± 0,247	0,523
TG (16:0/17:1/18:1)	0,2712	± 0,113	0,3871	± 0,044	0,701
TG (16:0/17:1/18:2)	0,1310	± 0,033	0,1176	± 0,013	0,898
TG (16:0/18:0/18:1)	0,4230	± 0,390	0,5933	± 0,082	0,898
TG (16:0/18:0/18:2)	0,7326	± 1,010	2,1276	± 0,531	0,701
TG (16:0/18:1/18:2)	6,1253	± 2,700	9,2644	± 1,170	0,609
TG (16:0/18:1/19:1)	0,0517	± 0,060	0,1091	± 0,022	0,701

Table 7. Triglycerides (TG) species identified in the gastrocnemius of LDLR KO male mice fed either the normal sodium (NS; n = 7) or the low-sodium diet (LS; n = 7). Part 2.

	NS		LS		P
TG (16:0/18:1/20:1)	0.4536	± 0.460	0.8374	± 0.238	0.798
TG (16:0/18:1/22:6)	0.1398	± 0.046	0.211	± 0.031	0.443
TG (16:0/18:1/18:1)	5.3333	± 1.730	7.4239	± 0.926	1.000
TG (16:0/18:2/22:4)	0.0415	± 0.040	0.0929	± 0.025	0.609
TG (16:0/18:2/22:6)	0.1733	± 0.040	0.2911	± 0.025	0.371
TG (16:0/18:2/18:2)	0.3569	± 0.474	1.0290	± 0.303	0.701
TG (16:0/16:0/16:1)	1.0012	± 0.756	1.1728	± 0.171	0.798
TG (16:0/16:0/18:1)	2.0052	± 1.670	2.9952	± 0.400	1.000
TG (16:0/16:0/16:0)	0.1914	± 0.107	0.3591	± 0.048	0.371
TG (16:1/17:1/18:2)	0.2188	± 0.070	0.3100	± 0.033	0.898
TG (16:1/18:1/18:2)	8.6219	± 2.700	12.0870	± 1.170	0.609
TG (16:1/18:1/18:1)	2.7634	± 0.778	3.0303	± 0.393	0.609
TG (16:1/18:2/18:3)	0.6249	± 0.173	0.9371	± 0.139	0.307
TG (16:1/18:2/22:5)	0.0119	± 0.010	0.0350	± 0.010	0.443
TG (16:1/18:2/18:2)	5.9665	± 1270	6.6006	± 0.853	0.523
TG (16:1/16:1/17:1)	0.0622	± 0.017	0.0853	± 0.011	0.798
TG (16:1/16:1/18:1)	6.8728	± 1.830	8.5875	± 0.829	0.701
TG (16:1/16:1/18:2)	4.1106	± 0.840	4.6548	± 0.515	0.609
TG (16:1/16:1/18:3)	0.1380	± 0.036	0.1578	± 0.029	0.609
TG (16:1/16:1/20:4)	0.5831	± 0.102	0.5774	± 0.081	0.201
TG (16:1/16:1/16:1)	1.9518	± 0.507	2.4398	± 0.283	0.609
TG (17:0/18:1/18:2)	0.0364	± 0.044	0.0955	± 0.021	0.701
TG (17:1/18:1/18:2)	0.2894	± 0.094	0.3623	± 0.042	0.898
TG (17:1/18:1/18:1)	0.3099	± 0.104	0.3808	± 0.043	0.701
TG (17:1/18:2/18:2)	0.1250	± 0.038	0.1698	± 0.019	0.898
TG (18:0/18:1/18:2)	0.0446	± 0.011	0.0448	± 0.007	1.000
TG (18:0/18:1/18:1)	0.7749	± 0.309	0.9041	± 0.114	0.898
TG (18:1/18:2/18:3)	0.8532	± 0.199	1.1533	± 0.125	0.250
TG (18:1/18:2/19:1)	0.0889	± 0.034	0.0958	± 0.012	0.898
TG (18:1/18:2/20:1)	0.2874	± 0.137	0.3563	± 0.052	0.798
TG (18:1/18:2/20:2)	0.1743	± 0.066	0.2608	± 0.035	0.443
TG (18:1/18:2/20:3)	0.1834	± 0.074	0.2137	± 0.036	0.798
TG (18:1/18:2/22:4)	0.0979	± 0.037	0.1202	± 0.021	0.701
TG (18:1/18:2/20:4)	0.4301	± 0.127	0.5883	± 0.076	0.701

