Table S3. Mean, standard error of mean (SEM) and probabilities (*P*-value) of lipids that differed (*P* ≤ 0.05) between feedlot finished animals with low growth rate (F-L) and pasture finished animals with high growth rate (P-H).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Lipid, % | | F-L | P-H | Fold ratioa | SEM | *P*-value |
|  | *Lipid subset A* | | | | | |
| TG 16:0\_38:0 | | 0.19 | 0.27 | 1.42 | 0.064 | 0.030 |
| TG 16:1\_38:0 | | 1.59 | 2.38 | 1.50 | 0.535 | 0.003 |
| TG 16:1\_38:1 | | 2.54 | 3.05 | 1.20 | 0.399 | 0.019 |
| TG 16:1\_38:7 | | 0.27 | 0.41 | 1.52 | 0.104 | 0.007 |
| TG 18:0\_36:1 | | 0.89 | 1.24 | 1.39 | 0.236 | 0.003 |
| TG 18:0\_36:2 | | 4.75 | 5.65 | 1.19 | 0.767 | 0.035 |
| TG 18:0\_36:8 | | 0.51 | 0.71 | 1.39 | 0.156 | 0.016 |
| TG 18:1\_32:3 | | 2.44 | 1.98 | 0.81 | 0.419 | 0.048 |
| TG 18:1\_34:2 | | 11.96 | 10.77 | 0.90 | 1.068 | 0.047 |
|  | *Lipid subset B* | | | | | |
| Lyso PC(18:1) | | 0.11 | 0.14 | 1.27 | 0.024 | 0.015 |
| Lyso PC(18:3) | | 0.02 | 0.03 | 1.50 | 0.004 | 0.035 |
| Lyso PC(22:4) | | 0.09 | 0.06 | 0.67 | 0.029 | 0.025 |
| PC(30:1) | | 0.30 | 0.34 | 1.13 | 0.029 | 0.027 |
| PC(30:2) | | 0.05 | 0.06 | 1.20 | 0.011 | 0.004 |
| PC(32:0) | | 0.29 | 0.35 | 1.21 | 0.046 | 0.007 |
| PC(32:1) | | 1.77 | 2.25 | 1.27 | 0.348 | 0.006 |
| PC(32:2) | | 0.46 | 0.70 | 1.52 | 0.152 | 0.001 |
| PC(32:4) | | 0.04 | 0.06 | 1.50 | 0.012 | 0.004 |
| PC(34:0) | | 0.99 | 1.20 | 1.21 | 0.188 | 0.045 |
| PC(34:2) | | 13.96 | 10.44 | 0.75 | 2.625 | 0.011 |
| PC(34:3) | | 1.77 | 2.21 | 1.25 | 0.290 | 0.002 |
| PC(36:1) | | 1.08 | 1.61 | 1.49 | 0.381 | 0.007 |
| PC(36:2) | | 2.24 | 2.70 | 1.21 | 0.371 | 0.022 |
| PC(36:4) | | 1.42 | 1.22 | 0.86 | 0.127 | 0.002 |
| PC(36:7) | | 0.07 | 0.10 | 1.43 | 0.016 | 0.001 |
| PC(36:8) | | 0.52 | 0.80 | 1.54 | 0.197 | 0.005 |
| PC(38:0) | | 0.13 | 0.10 | 0.77 | 0.022 | 0.035 |
| PC(38:5) | | 0.39 | 0.49 | 1.26 | 0.071 | 0.004 |
| PC(38:6) | | 0.16 | 0.20 | 1.25 | 0.027 | 0.021 |
| PC(38:7) | | 0.04 | 0.05 | 1.25 | 0.011 | 0.022 |
| PC(38:8) | | 0.10 | 0.13 | 1.30 | 0.016 | 0.009 |
| PC(40:10)) | | 0.03 | 0.02 | 0.67 | 0.003 | 0.020 |
| PC(40:5) | | 0.05 | 0.07 | 1.40 | 0.010 | 0.003 |
| PC(40:6) | | 0.05 | 0.06 | 1.20 | 0.010 | 0.015 |
| PC(40:7)) | | 0.03 | 0.05 | 1.67 | 0.010 | 0.005 |
| PC(40:8) | | 0.03 | 0.04 | 1.33 | 0.005 | 0.022 |
| PCo(32:0) | | 0.11 | 0.16 | 1.45 | 0.032 | 0.001 |
| PCo(32:1) | | 0.24 | 0.30 | 1.25 | 0.037 | 0.003 |
| PCo(32:2) | | 0.24 | 0.43 | 1.79 | 0.126 | 0.001 |
| PCo(34:0) | | 0.16 | 0.22 | 1.38 | 0.044 | 0.017 |
| PCo(34:1) | | 1.47 | 2.30 | 1.56 | 0.591 | 0.006 |
| PCo(34:2) | | 5.48 | 6.68 | 1.22 | 1.047 | 0.039 |
| PCo(34:3) | | 8.66 | 6.84 | 0.79 | 1.413 | 0.017 |
| PCo(34:4) | | 1.09 | 1.43 | 1.31 | 0.235 | 0.005 |
| PCo(36:0) | | 0.07 | 0.10 | 1.43 | 0.016 | 0.001 |
| PCo(36:1) | | 0.52 | 0.80 | 1.54 | 0.197 | 0.005 |
| PCo(36:3) | | 2.38 | 1.90 | 0.80 | 0.287 | <0.001 |
| PCo(36:4) | | 2.82 | 1.91 | 0.68 | 0.586 | 0.001 |
| PCo(36:5) | | 3.01 | 1.80 | 0.60 | 0.960 | 0.020 |
| PCo(38:0) | | 0.04 | 0.05 | 1.25 | 0.011 | 0.022 |
| PCo(38:1) | | 0.10 | 0.13 | 1.30 | 0.016 | 0.009 |
| PCo(38:4) | | 0.51 | 0.35 | 0.69 | 0.096 | <0.001 |
| PCo(38:5) | | 1.12 | 0.70 | 0.63 | 0.268 | 0.001 |
| PCo(40:0 | | 0.03 | 0.05 | 1.67 | 0.010 | 0.005 |
| PCo(40:1) | | 0.03 | 0.04 | 1.33 | 0.005 | 0.022 |
| PCo(40:3 | | 0.03 | 0.02 | 0.67 | 0.003 | 0.020 |
| PCo(40:4) | | 0.05 | 0.04 | 0.80 | 0.007 | 0.029 |
| PCo(40:5) | | 0.11 | 0.09 | 0.82 | 0.009 | 0.001 |
| PCp(32:4) | | 0.29 | 0.35 | 1.21 | 0.046 | 0.007 |
| PCp(40:6) | | 0.13 | 0.10 | 0.77 | 0.022 | 0.035 |
| PE(34:1) | | 0.03 | 0.05 | 1.67 | 0.009 | 0.001 |
| PE(36:1) | | 0.12 | 0.17 | 1.42 | 0.029 | 0.001 |
| PE(36:3) | | 0.14 | 0.19 | 1.36 | 0.028 | 0.004 |
| PE(38:3) | | 0.15 | 0.20 | 1.33 | 0.037 | 0.012 |
| PE(38:4) | | 0.76 | 0.91 | 1.20 | 0.136 | 0.043 |
| PE(38:5) | | 0.14 | 0.24 | 1.71 | 0.057 | <0.001 |
| PE(40:5) | | 0.06 | 0.11 | 1.83 | 0.029 | 0.001 |
| PEo(36:5) | | 0.05 | 0.04 | 0.80 | 0.009 | 0.045 |
| PEo(38:5) | | 0.13 | 0.11 | 0.85 | 0.022 | 0.027 |
| SM(d16:1/18:1) | | 0.06 | 0.07 | 1.17 | 0.010 | 0.002 |
| SM(d16:1/22:1) | | 0.79 | 0.95 | 1.20 | 0.115 | 0.013 |
| SM(d16:1/24:0) | | 1.23 | 1.43 | 1.16 | 0.167 | 0.040 |
| SM(d18:0/18:0) | | 0.50 | 0.69 | 1.38 | 0.133 | 0.003 |
| SM(d18:0/22:0) | | 0.42 | 0.62 | 1.48 | 0.141 | 0.008 |
| SM(d18:1/18:0) | | 2.66 | 2.22 | 0.83 | 0.331 | 0.011 |
| SM(d18:1/20:0) | | 5.55 | 4.22 | 0.76 | 0.992 | 0.011 |
| SM(d18:2/18:1) | | 0.03 | 0.04 | 1.33 | 0.008 | 0.016 |
| SM(d18:2/22:1) | | 0.61 | 0.53 | 0.87 | 0.061 | 0.009 |
| SM(d18:2/24:1) | | 0.22 | 0.20 | 0.91 | 0.020 | 0.050 |
|  | *Lipid subset C* | | | | | |
| (4Z)-decenoylcarnitine | | 0.39 | 0.32 | 0.82 | 0.062 | 0.040 |
| (5Z)-13-carboxytridec-5-enoylcarnitine | | 0.43 | 0.33 | 0.77 | 0.089 | 0.046 |
| (9Z,12Z,15Z)-3-hydroxyoctadecatrienoylcarnitine | | 0.43 | 0.34 | 0.79 | 0.069 | 0.019 |
| 3-hydroxyeicosanoylcarnitine | | 0.42 | 0.35 | 0.83 | 0.059 | 0.049 |
| 9-Decenoylcarnitine | | 0.39 | 0.32 | 0.82 | 0.062 | 0.040 |
| C16:0 | | 0.80 | 1.47 | 1.84 | 0.588 | 0.035 |
| C18:0 | | 0.92 | 1.73 | 1.88 | 0.728 | 0.006 |
| Cervonyl carnitine | | 0.42 | 0.35 | 0.83 | 0.059 | 0.049 |
| DG 16:0\_18:2 | | 0.87 | 0.72 | 0.83 | 0.126 | 0.043 |
| DG 18:2\_16:0 | | 0.91 | 0.69 | 0.76 | 0.155 | 0.019 |
| DG 18:2\_18:0 | | 0.38 | 0.32 | 0.84 | 0.055 | 0.033 |
| Elaidic carnitine | | 0.37 | 0.30 | 0.81 | 0.055 | 0.043 |
| O-oleoylcarnitine | | 0.37 | 0.30 | 0.81 | 0.055 | 0.043 |
| Palmitoylcarnitine | | 0.43 | 0.33 | 0.77 | 0.089 | 0.046 |
| PI(36:1) | | 0.57 | 0.80 | 1.40 | 0.204 | 0.040 |
| PI(38:7) | | 0.33 | 0.27 | 0.82 | 0.053 | 0.026 |
| PI(40:0) | | 0.93 | 0.61 | 0.66 | 0.286 | 0.048 |
| PIp(42:6) | | 0.93 | 0.61 | 0.66 | 0.286 | 0.048 |

Lipid subsets A= triglyceride (TG); B= phosphatidylcholine (PC), phosphatidylethanolamine (PE) and sphingomyelin (SM); and C= acyl-carnitine, ceramides (CER), diglyceride (DG), free fatty acids and phosphatidylglycerol (PG), phosphatidylinositol (PI) and phosphatidylserine (PS).

a P-H/F-L.