

Supplementary Table I: Amounts of polar lipid molecular species as affected by nitrogen starvation. Leaves and roots of fifteen-day-old seedling exposed to nitrogen sufficient (5 mM) and deficient (0.5 mM) conditions were used to analyze the lipids. Five biological replications were maintained for each experiment and the experiment was repeated thrice. The lipids were analyzed by ESI-MS/MS and the intensities in each spectrum were normalized to those two internal standards of the same class; a signal of 1 is the same amount of intensity as 1 nmol of the standards. The data represents the average of 15 replicates. The data of nitrogen sufficient and deficient conditions were compared using one-way ANOVA and the p values are reported. The p value <0.05 is presented in bold. The reduction in lipid species content under nitrogen starvation is denoted as minus (-) sign.

| Lipid species (class and total acyl carbons: total carbon-carbon double bonds) | Compound Number | Normalized mass spectral signal per extracted dry mass (signal per mg) | | | | Normalized mass spectral signal per extracted dry mass (signal per mg) | | | |
|---|-----------------|--|----------|---------------|--|--|----------|-----------------|--|
| | | Leaf | | | | Root | | | |
| | | N 5 mM | N 0.5 mM | P value | Difference between N 5 mM and N 0.5 mM | N 5 mM | N 0.5 mM | P value | Difference between N 5 mM and N 0.5 mM |
| DGDG(34:6) | 126 | 0.018 | 0.006 | 0.009 | -0.012 | 0.002 | 0.001 | 0.088 | -0.001 |
| DGDG(34:5) | 127 | 0.016 | 0.006 | 0.022 | -0.010 | 0.000 | 0.000 | 0.092 | 0.000 |
| DGDG(34:4) | 128 | 0.225 | 0.114 | 0.024 | -0.111 | 0.004 | 0.002 | 0.015 | -0.002 |
| DGDG(34:3) | 129 | 7.394 | 3.922 | 0.02 | -3.471 | 0.503 | 0.159 | 6.52E-05 | -0.344 |
| DGDG(34:2) | 130 | 0.042 | 0.024 | 0.264 | -0.019 | 0.130 | 0.022 | 7.26E-05 | -0.108 |
| DGDG(34:1) | 131 | 0.081 | 0.047 | 0.0124 | -0.034 | 0.012 | 0.006 | 8.00E-05 | -0.006 |
| DGDG(36:6) | 132 | 22.322 | 11.935 | 0.008 | -10.387 | 0.783 | 0.564 | 0.0017 | -0.219 |
| DGDG(36:5) | 133 | 0.466 | 0.129 | 0.033 | -0.337 | 0.120 | 0.024 | 4.07E-05 | -0.096 |
| DGDG(36:4) | 134 | 0.422 | 0.221 | 0.005 | -0.201 | 0.091 | 0.029 | 6.62E-06 | -0.062 |
| DGDG(36:3) | 135 | 1.550 | 0.921 | 0.001 | -0.629 | 0.192 | 0.107 | 9.61E-05 | -0.085 |
| DGDG(36:2) | 136 | 0.043 | 0.017 | 0.041 | -0.026 | 0.030 | 0.009 | 6.53E-07 | -0.021 |
| DGDG(36:1) | 137 | 0.008 | 0.005 | 0.15 | -0.003 | 0.001 | 0.001 | 0.4476 | 0.000 |
| DGDG(38:6) | 138 | 0.102 | 0.074 | 0.272 | -0.028 | 0.019 | 0.008 | 0.0342 | -0.011 |

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| DGDG(38:5) | 139 | 0.001 | 0.000 | 0.152 | -0.001 | 0.000 | 0.000 | 0.0965 | 0.000 |
| DGDG(38:4) | 140 | 0.007 | 0.003 | 0.049 | -0.003 | 0.002 | 0.000 | 1.16E-04 | -0.001 |
| DGDG(38:3) | 141 | 0.028 | 0.015 | 0.01 | -0.013 | 0.008 | 0.001 | 2.78E-07 | -0.007 |
| TOTAL | | 32.725 | 17.440 | 0.008 | -15.285 | 1.896 | 0.933 | 4.23E-05 | -0.963 |
| DGDG | | | | | | | | | |
| MGDG(34:6) | 110 | 0.080 | 0.028 | 0.004 | -0.052 | 0.000 | 0.002 | 0.032 | 0.001 |
| MGDG(34:5) | 111 | 0.067 | 0.026 | 0.004 | -0.041 | 0.002 | 0.001 | 0.231 | -0.001 |
| MGDG(34:4) | 112 | 0.472 | 0.199 | 0.017 | -0.274 | 0.003 | 0.005 | 0.12 | 0.001 |
| MGDG(34:3) | 113 | 1.950 | 0.741 | 0.006 | -1.209 | 0.075 | 0.025 | 0.007 | -0.050 |
| MGDG(34:2) | 114 | 0.033 | 0.007 | 0.037 | -0.025 | 0.023 | 0.003 | 3.03E-04 | -0.020 |
| MGDG(34:1) | 115 | 0.013 | 0.009 | 0.327 | -0.004 | 0.010 | 0.002 | 0.018 | -0.008 |
| MGDG(36:6) | 116 | 65.141 | 30.722 | 0.016 | -34.419 | 1.581 | 1.281 | 0.333 | -0.300 |
| MGDG(36:5) | 117 | 1.575 | 0.674 | 0.0013 | -0.901 | 0.108 | 0.038 | 1.69E-06 | -0.069 |
| MGDG(36:4) | 118 | 0.863 | 0.414 | 0.016 | -0.450 | 0.062 | 0.026 | 7.63E-04 | -0.035 |
| MGDG(36:3) | 119 | 0.344 | 0.184 | 0.03 | -0.159 | 0.023 | 0.012 | 6.00E-03 | -0.012 |
| MGDG(36:2) | 120 | 0.014 | 0.007 | 0.082 | -0.007 | 0.005 | 0.001 | 2.00E-03 | -0.004 |
| MGDG(36:1) | 121 | 0.008 | 0.000 | 2.45E-05 | -0.008 | 0.003 | 0.000 | 4.37E-02 | -0.003 |
| MGDG(38:6) | 122 | 0.099 | 0.041 | 0.02 | -0.058 | 0.005 | 0.000 | 5.70E-02 | -0.005 |
| MGDG(38:5) | 123 | 0.025 | 0.008 | 0.022 | -0.017 | 0.002 | 0.000 | 0.912 | -0.002 |
| MGDG(38:4) | 124 | 0.011 | 0.004 | 0.006 | -0.007 | 0.000 | 0.001 | 2.39E-04 | 0.000 |
| MGDG(38:3) | 125 | 0.005 | 0.003 | 0.067 | -0.003 | 0.002 | 0.000 | 0.015 | -0.001 |
| TOTAL | | 70.701 | 33.069 | 0.014 | -37.632 | 1.905 | 1.398 | 1.49E-01 | -0.507 |
| MGDG | | | | | | | | | |
| PG(32:1) | 103 | 1.927 | 1.249 | 0.071 | -0.678 | 0.015 | 0.023 | 0.177 | 0.009 |
| PG(32:0) | 104 | 0.376 | 0.338 | 0.59 | -0.038 | 0.296 | 0.274 | 0.47 | -0.021 |
| PG(34:4) | 105 | 0.738 | 0.406 | 0.037 | -0.332 | 0.001 | 0.001 | 0.71 | 0.000 |
| PG(34:3) | 106 | 0.448 | 0.305 | 0.073 | -0.143 | 0.238 | 0.247 | 0.79 | 0.009 |
| PG(34:2) | 107 | 0.977 | 0.681 | 0.095 | -0.296 | 0.184 | 0.163 | 0.336 | -0.022 |
| PG(34:1) | 108 | 0.634 | 0.465 | 0.055 | -0.169 | 0.040 | 0.039 | 0.71 | -0.001 |

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| PG(34:0) | 109 | 0.072 | 0.073 | 0.957 | 0.001 | 0.048 | 0.048 | 0.98 | 0.000 |
| PG(36:6) | 152 | 0.003 | 0.005 | 0.156 | 0.002 | 0.004 | 0.007 | 0.0221 | 0.003 |
| PG(36:5) | 153 | 0.004 | 0.008 | 0.089 | 0.005 | 0.007 | 0.008 | 0.509 | 0.001 |
| PG(36:4) | 154 | 0.017 | 0.012 | 0.166 | -0.005 | 0.004 | 0.004 | 0.775 | 0.000 |
| PG(36:3) | 155 | 0.010 | 0.011 | 0.78 | 0.001 | 0.010 | 0.013 | 0.14 | 0.003 |
| PG(36:2) | 156 | 0.018 | 0.015 | 0.416 | -0.004 | 0.016 | 0.018 | 0.458 | 0.002 |
| PG(36:1) | 157 | 0.002 | 0.002 | 0.207 | -0.001 | 0.001 | 0.001 | 0.78 | 0.000 |
| TOTAL PG | | 5.236 | 3.569 | 0.063 | -1.667 | 0.865 | 0.846 | 0.844 | -0.019 |
| LPG(16:1) | 98 | 0.006 | 0.007 | 0.904 | 0.000 | 0.006 | 0.004 | 0.371 | -0.002 |
| LPG(16:0) | 99 | 0.015 | 0.010 | 0.38 | -0.005 | 0.001 | 0.001 | 0.937 | 0.000 |
| LPG(18:3) | 100 | 0.005 | 0.002 | 0.266 | -0.002 | 0.000 | 0.000 | 0.561 | 0.000 |
| LPG(18:2) | 101 | 0.001 | 0.001 | 0.526 | -0.001 | 0.000 | 0.001 | 0.352 | 0.000 |
| LPG(18:1) | 102 | 0.004 | 0.003 | 0.292 | -0.001 | 0.001 | 0.002 | 0.352 | 0.001 |
| TOTAL LPG | | 0.031 | 0.022 | 0.307 | -0.009 | 0.009 | 0.008 | 0.760 | -0.001 |
| LPC(16:1) | 87 | 0.000 | 0.000 | 0.311 | 0.000 | 0.000 | 0.000 | 0.076 | 0.000 |
| LPC(16:0) | 88 | 0.014 | 0.012 | 0.226 | -0.002 | 0.019 | 0.016 | 0.262 | -0.003 |
| LPC(18:3) | 89 | 0.009 | 0.008 | 0.749 | -0.001 | 0.022 | 0.022 | 0.959 | 0.000 |
| LPC(18:2) | 90 | 0.011 | 0.010 | 0.825 | -0.001 | 0.021 | 0.015 | 0.012 | -0.006 |
| LPC(18:1) | 91 | 0.001 | 0.001 | 0.372 | 0.000 | 0.003 | 0.002 | 0.005 | -0.001 |
| LPC(18:0) | 92 | 0.006 | 0.004 | 0.031 | -0.002 | 0.006 | 0.005 | 0.653 | 0.000 |
| TOTAL LPC | | 0.041 | 0.036 | 0.374 | -0.005 | 0.070 | 0.060 | 0.176 | -0.011 |
| LPE(16:1) | 93 | 0.000 | 0.000 | 0.966 | 0.000 | 0.000 | 0.001 | 0.177 | 0.000 |
| LPE(16:0) | 94 | 0.012 | 0.014 | 0.35 | 0.002 | 0.056 | 0.060 | 0.626 | 0.004 |
| LPE(18:3) | 95 | 0.004 | 0.005 | 0.376 | 0.001 | 0.024 | 0.027 | 0.17 | 0.003 |
| LPE(18:2) | 96 | 0.009 | 0.010 | 0.646 | 0.001 | 0.032 | 0.030 | 0.4 | -0.003 |
| LPE(18:1) | 97 | 0.002 | 0.001 | 0.181 | -0.001 | 0.002 | 0.002 | 0.401 | 0.000 |
| TOTAL LPE | | 0.026 | 0.029 | 0.564 | 0.003 | 0.115 | 0.119 | 0.693 | 0.005 |
| PC(32:0) | 1 | 0.018 | 0.021 | 0.576 | 0.004 | 0.050 | 0.050 | 0.999 | 0.000 |
| PC(34:4) | 2 | 0.024 | 0.018 | 0.185 | -0.006 | 0.050 | 0.048 | 0.811 | -0.001 |
| PC(34:3) | 3 | 1.941 | 1.820 | 0.72 | -0.121 | 3.271 | 3.282 | 0.974 | 0.011 |

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| PC(34:2) | 4 | 2.063 | 2.089 | 0.96 | 0.025 | 2.536 | 2.066 | 0.137 | -0.470 |
| PC(34:1) | 5 | 0.179 | 0.193 | 0.783 | 0.014 | 0.180 | 0.136 | 0.04 | -0.044 |
| PC(36:6) | 6 | 0.809 | 0.776 | 0.85 | -0.033 | 2.392 | 2.579 | 0.579 | 0.187 |
| PC(36:5) | 7 | 1.795 | 1.792 | 0.996 | -0.002 | 3.505 | 3.048 | 0.179 | -0.457 |
| PC(36:4) | 8 | 1.374 | 1.269 | 0.801 | -0.104 | 1.722 | 1.250 | 0.039 | -0.472 |
| PC(36:3) | 9 | 1.019 | 1.084 | 0.755 | 0.066 | 1.228 | 1.307 | 0.539 | 0.079 |
| PC(36:2) | 10 | 0.810 | 0.921 | 0.664 | 0.111 | 0.792 | 0.699 | 0.338 | -0.093 |
| PC(36:1) | 11 | 0.003 | 0.001 | 0.074 | -0.003 | 0.000 | 0.000 | 0.326 | 0.000 |
| PC(38:6) | 12 | 0.010 | 0.009 | 0.5778 | -0.001 | 0.018 | 0.021 | 0.423 | 0.002 |
| PC(38:5) | 13 | 0.021 | 0.017 | 0.501 | -0.003 | 0.031 | 0.031 | 0.855 | -0.001 |
| PC(38:4) | 14 | 0.026 | 0.027 | 0.913 | 0.001 | 0.048 | 0.045 | 0.59 | -0.003 |
| PC(38:3) | 115 | 0.073 | 0.075 | 0.925 | 0.002 | 0.129 | 0.135 | 0.634 | 0.006 |
| PC(38:2) | 16 | 0.045 | 0.045 | 0.956 | 0.000 | 0.065 | 0.058 | 0.313 | -0.007 |
| PC(40:5) | 17 | 0.002 | 0.002 | 0.86 | 0.000 | 0.006 | 0.007 | 0.273 | 0.002 |
| PC(40:4) | 18 | 0.004 | 0.004 | 0.777 | 0.001 | 0.008 | 0.008 | 0.937 | 0.000 |
| PC(40:3) | 19 | 0.020 | 0.019 | 0.698 | -0.002 | 0.023 | 0.027 | 0.243 | 0.004 |
| PC(40:2) | 20 | 0.024 | 0.024 | 0.917 | 0.001 | 0.034 | 0.036 | 0.652 | 0.002 |
| TOTAL PC | | 10.258 | 10.207 | 0.982 | -0.051 | 16.086 | 14.832 | 0.465 | -1.254 |
| PE(32:3) | 142 | 0.000 | 0.001 | 0.65 | 0.000 | 0.005 | 0.006 | 0.021 | 0.002 |
| PE(32:2) | 143 | 0.001 | 0.002 | 0.108 | 0.001 | 0.015 | 0.019 | 0.179 | 0.004 |
| PE(32:1) | 144 | 0.001 | 0.001 | 0.092 | 0.000 | 0.032 | 0.066 | 0.036 | 0.035 |
| PE(32:0) | 145 | 0.001 | 0.002 | 0.006 | 0.001 | 0.005 | 0.007 | 0.015 | 0.003 |
| PE(34:4) | 21 | 0.003 | 0.004 | 0.423 | 0.001 | 0.029 | 0.033 | 0.169 | 0.003 |
| PE(34:3) | 22 | 0.679 | 0.689 | 0.93 | 0.010 | 2.577 | 2.806 | 0.436 | 0.229 |
| PE(34:2) | 23 | 0.975 | 1.076 | 0.667 | 0.101 | 2.670 | 2.480 | 0.467 | -0.190 |
| PE(34:1) | 24 | 0.042 | 0.061 | 0.017 | 0.018 | 0.116 | 0.096 | 0.055 | -0.021 |
| PE(36:6) | 25 | 0.187 | 0.155 | 0.484 | -0.032 | 0.670 | 0.728 | 0.533 | 0.058 |
| PE(36:5) | 26 | 0.659 | 0.553 | 0.463 | -0.107 | 1.575 | 1.354 | 0.258 | -0.221 |
| PE(36:4) | 27 | 0.563 | 0.500 | 0.602 | -0.063 | 0.852 | 0.645 | 0.042 | -0.208 |
| PE(36:3) | 28 | 0.172 | 0.206 | 0.237 | 0.034 | 0.440 | 0.486 | 0.272 | 0.045 |

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| PE(36:2) | 29 | 0.204 | 0.265 | 0.187 | 0.061 | 0.366 | 0.371 | 0.876 | 0.005 |
| PE(36:1) | 30 | 0.001 | 0.003 | 0.129 | 0.001 | 0.002 | 0.000 | 0.078 | -0.002 |
| PE(38:6) | 31 | 0.004 | 0.004 | 0.75 | 0.000 | 0.008 | 0.011 | 0.112 | 0.002 |
| PE(38:5) | 32 | 0.012 | 0.010 | 0.744 | -0.002 | 0.013 | 0.014 | 0.234 | 0.001 |
| PE(38:4) | 33 | 0.013 | 0.011 | 0.467 | -0.001 | 0.019 | 0.016 | 0.32 | -0.003 |
| PE(38:3) | 34 | 0.026 | 0.030 | 0.413 | 0.005 | 0.049 | 0.061 | 0.0045 | 0.011 |
| PE(40:3) | 36 | 0.012 | 0.012 | 0.404 | 0.000 | 0.031 | 0.042 | 0.056 | 0.010 |
| PE(40:2) | 37 | 0.024 | 0.030 | 0.926 | 0.005 | 0.053 | 0.063 | 0.14 | 0.010 |
| PE(42:4) | 38 | 0.000 | 0.001 | 0.675 | 0.000 | 0.000 | 0.000 | 0.862 | 0.000 |
| PE(42:3) | 39 | 0.011 | 0.014 | 0.08 | 0.003 | 0.090 | 0.135 | 0.001 | 0.045 |
| PE(42:2) | 40 | 0.031 | 0.045 | 0.025 | 0.014 | 0.162 | 0.205 | 0.004 | 0.044 |
| TOTAL PE | | 3.635 | 3.690 | 0.941 | 0.055 | 9.794 | 9.658 | 0.885 | -0.136 |
| PI(32:3) | 146 | 0.000 | 0.000 | 0.17 | 0.000 | 0.001 | 0.001 | 0.08 | 0.000 |
| PI(32:2) | 147 | 0.001 | 0.000 | 0.089 | 0.000 | 0.001 | 0.001 | 0.773 | 0.000 |
| PI(32:1) | 148 | 0.002 | 0.002 | 0.793 | 0.000 | 0.004 | 0.004 | 0.267 | -0.001 |
| PI(32:0) | 149 | 0.011 | 0.012 | 0.796 | 0.001 | 0.040 | 0.036 | 0.603 | -0.004 |
| PI(34:4) | 41 | 0.004 | 0.002 | 0.164 | -0.002 | 0.010 | 0.010 | 0.637 | 0.001 |
| PI(34:3) | 42 | 0.990 | 0.843 | 0.476 | -0.148 | 2.492 | 2.411 | 0.781 | -0.081 |
| PI(34:2) | 43 | 0.701 | 0.644 | 0.783 | -0.057 | 1.547 | 1.259 | 0.191 | -0.288 |
| PI(34:1) | 44 | 0.004 | 0.010 | 0.24 | 0.006 | 0.028 | 0.025 | 0.653 | -0.004 |
| PI(36:6) | 45 | 0.051 | 0.041 | 0.367 | -0.010 | 0.098 | 0.120 | 0.177 | 0.021 |
| PI(36:5) | 46 | 0.075 | 0.063 | 0.609 | -0.012 | 0.145 | 0.134 | 0.532 | -0.011 |
| PI(36:4) | 47 | 0.057 | 0.047 | 0.647 | -0.010 | 0.109 | 0.089 | 0.144 | -0.020 |
| PI(36:3) | 48 | 0.192 | 0.194 | 0.97 | 0.002 | 0.280 | 0.303 | 0.512 | 0.023 |
| PI(36:2) | 49 | 0.184 | 0.191 | 0.912 | 0.008 | 0.198 | 0.186 | 0.658 | -0.012 |
| PI(36:1) | 50 | 0.001 | 0.001 | 0.601 | 0.000 | 0.005 | 0.004 | 0.341 | -0.002 |
| TOTAL PI | | 2.273 | 2.051 | 0.704 | -0.222 | 4.960 | 4.583 | 0.543 | -0.377 |
| PS(34:4) | 61 | 0.000 | 0.000 | 0.326 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| PS(34:3) | 62 | 0.007 | 0.008 | 0.646 | 0.001 | 0.044 | 0.050 | 0.345 | 0.007 |
| PS(34:2) | 63 | 0.011 | 0.012 | 0.67 | 0.002 | 0.036 | 0.039 | 0.447 | 0.004 |

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| PS(34:1) | 64 | 0.000 | 0.000 | 0.024 | 0.000 | 0.002 | 0.001 | 0.067 | -0.001 |
| PS(36:6) | 65 | 0.000 | 0.000 | 0.959 | 0.000 | 0.001 | 0.002 | 0.462 | 0.000 |
| PS(36:5) | 66 | 0.004 | 0.004 | 0.85 | 0.000 | 0.003 | 0.003 | 0.196 | 0.000 |
| PS(36:4) | 67 | 0.002 | 0.001 | 0.073 | -0.001 | 0.003 | 0.005 | 0.055 | 0.002 |
| PS(36:3) | 68 | 0.009 | 0.010 | 0.71 | 0.001 | 0.022 | 0.027 | 0.0617 | 0.006 |
| PS(36:2) | 69 | 0.015 | 0.010 | 0.28 | -0.005 | 0.018 | 0.019 | 0.675 | 0.001 |
| PS(36:1) | 70 | 0.000 | 0.000 | 0.178 | 0.000 | 0.000 | 0.000 | 0.01 | 0.000 |
| PS(38:6) | 71 | 0.000 | 0.000 | 0.49 | 0.000 | 0.000 | 0.000 | 0.843 | 0.000 |
| PS(38:5) | 72 | 0.000 | 0.000 | 0.075 | 0.000 | 0.000 | 0.000 | 0.674 | 0.000 |
| PS(38:4) | 73 | 0.000 | 0.000 | 0.049 | 0.000 | 0.001 | 0.001 | 0.95 | 0.000 |
| PS(38:3) | 74 | 0.008 | 0.007 | 0.898 | 0.000 | 0.021 | 0.025 | 0.203 | 0.004 |
| PS(38:2) | 75 | 0.019 | 0.014 | 0.37 | -0.005 | 0.021 | 0.022 | 0.829 | 0.001 |
| PS(38:1) | 76 | 0.000 | 0.000 | 0.326 | 0.000 | 0.001 | 0.001 | 0.138 | 0.000 |
| PS(40:4) | 77 | 0.000 | 0.000 | 0.153 | 0.000 | 0.000 | 0.000 | 0.15 | 0.000 |
| PS(40:3) | 78 | 0.020 | 0.015 | 0.34 | -0.005 | 0.042 | 0.049 | 0.26 | 0.007 |
| PS(40:2) | 79 | 0.040 | 0.023 | 0.031 | -0.018 | 0.037 | 0.038 | 0.84 | 0.001 |
| PS(40:1) | 80 | 0.001 | 0.001 | 0.866 | 0.000 | 0.001 | 0.000 | 0.051 | -0.001 |
| PS(42:4) | 81 | 0.000 | 0.000 | 0.258 | 0.000 | 0.000 | 0.001 | 0.068 | 0.001 |
| PS(42:3) | 82 | 0.021 | 0.013 | 0.097 | -0.009 | 0.112 | 0.146 | 0.021 | 0.034 |
| PS(42:2) | 83 | 0.040 | 0.022 | 0.042 | -0.018 | 0.102 | 0.106 | 0.793 | 0.004 |
| PS(42:1) | 84 | 0.000 | 0.000 | 0.529 | 0.000 | 0.001 | 0.001 | 0.644 | 0.000 |
| PS(44:3) | 85 | 0.001 | 0.001 | 0.439 | 0.000 | 0.012 | 0.012 | 0.949 | 0.000 |
| PS(44:2) | 86 | 0.004 | 0.002 | 0.042 | -0.002 | 0.015 | 0.011 | 0.231 | -0.004 |
| TOTAL PS | | 0.201 | 0.144 | 0.189 | -0.057 | 0.495 | 0.559 | 0.249 | 0.064 |
| PA(32:0) | 150 | 0.000 | 0.001 | 0.17 | 0.000 | 0.025 | 0.044 | 0.18 | 0.019 |
| PA(34:6) | 51 | 0.000 | 0.000 | 0.07 | 0.000 | 0.000 | 0.001 | 0.23 | 0.000 |
| PA(34:5) | 151 | 0.000 | 0.000 | 0.326 | 0.000 | 0.000 | 0.000 | 0.769 | 0.000 |
| PA(34:4) | 52 | 0.000 | 0.000 | 0.728 | 0.000 | 0.003 | 0.004 | 0.271 | 0.001 |
| PA(34:3) | 53 | 0.025 | 0.022 | 0.433 | -0.003 | 0.382 | 0.455 | 0.101 | 0.073 |
| PA(34:2) | 54 | 0.022 | 0.021 | 0.799 | -0.001 | 0.312 | 0.318 | 0.877 | 0.006 |

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|------------------------------|----|---------|--------|--------------|---------|--------|--------|-------------|--------|
| PA(34:1) | 55 | 0.001 | 0.002 | 0.048 | 0.001 | 0.019 | 0.027 | 0.135 | 0.008 |
| PA(36:6) | 56 | 0.004 | 0.003 | 0.346 | -0.001 | 0.087 | 0.123 | 0.01 | 0.036 |
| PA(36:5) | 57 | 0.011 | 0.010 | 0.784 | -0.001 | 0.169 | 0.175 | 0.805 | 0.006 |
| PA(36:4) | 58 | 0.008 | 0.008 | 0.939 | 0.000 | 0.104 | 0.088 | 0.119 | -0.016 |
| PA(36:3) | 59 | 0.006 | 0.008 | 0.026 | 0.002 | 0.069 | 0.084 | 0.219 | 0.015 |
| PA(36:2) | 60 | 0.005 | 0.006 | 0.612 | 0.001 | 0.055 | 0.062 | 0.468 | 0.007 |
| TOTAL PA | | 0.083 | 0.082 | 0.94 | -0.001 | 1.226 | 1.380 | 0.311 | 0.153 |
| Total analyzed lipids | | 125.210 | 70.338 | 0.02 | -54.871 | 37.420 | 34.376 | 0.397 | -3.044 |