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**Supplementary Table S2**. Fatty acid profile of the PL extracted from membranes of control and patient cells.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  Fatty acid | Control | Control +LC | DMD | DMD + LC |
| 8 :0 | 0.217 ± 0.02 | 0.046 ± 0.01 | 0.017 ± 0.00 | 0.071 ± 0.00 |
| 10 :0 | 0.202 ± 0.02 | 0.066 ± 0.01 | 0.115 ± 0.02 | 0.159 ± 0.02 |
| 12 :0 | 1.131 ± 0.17 | 0.456 ± 0.24 | 0.844 ± 0.07 | 1.075 ± 0.09 |
| 14 :0 | 3.15 ± 0.26 | 2.335 ± 0.19 | 1.888 ± 0.20 | 2.044 ± 0.31 |
| 16:1 n-9 | 4.47 ± 0.37 | 3.734 ± 0.25 | 2.182 ± 0.29 | 0.826 ± 0.86 |
| 16:1 n-7 | 4.976 ± 0.39 | 5.266 ± 0.40 | 3.52 ± 0.27 | 3.096 ± 0.38 |
| 16:00 | 31.23 ± 2.04 | 30.394 ± 2.62 | 25.581 ± 2.34 | 39.076 ± 4.69 |
| 18:3 n-6 | 0.146 ± 0.01 | 0.158 ± 0.02 | 0.334 ± 0.02 | 0.117 ± 0.01 |
| 18:3 n-3 | 0.122 ± 0.02 | 0.076 ± 0.01 | 0.106 ± 0.01 | 0.046 ± 0.00  |
| 18 :2 | 2.175 ± 0.18 | 1.886 ± 0.23 | 5.043 ± 0.44 | 3.345 ± 0.39 |
| 18 :1 n-9 | 29.258 ± 2.45 | 32.261 ± 3.21 | 29.648 ± 2.59 | 18.023 ± 2.35 |
| 18 :1 n-7 | 8.14 ± 0.56 | 9.237 ± 0.67 | 5.303 ± 0.64 | 3.367 ± 0.35 |
| 18 :0 | 9.954 ± 0.86 | 9.133 ± 0.87 | 15.225 ± 1.85 | 24.155 ± 2.98 |
| 20 :5 | 0.319 ± 0.03 | 0.349 ± 0.04 | 1.008 ± 0.10 | 0.685 ± 0.05 |
| 20 :4 | 2.615 ± 0.21 | 2.698 ± 0.28 | 5.641 ± 0.67 | 2.48 ± 0.268 |
| 20 :3 | 0.441 ± 0.35 | 0.392 ± 0.03 | 0.873 ± 0.07 | 0.339 ± 0.02 |
| 20 :1 | 0.473 ± 0.33 | 0.463 ± 0.03 | 0.565 ± 0.06 | 0.23 ± 0.02 |
| 20 :0 | 0.09 ± 0.00 | 0.062 ± 0.01 | 0.161 ± 0.02 | 0.185 ± 0.02 |
| 22 :6 | 0.244 ± 0.03 | 0.256 ± 0.02 | 0.725 ± 0.06 | 0.228 ± 0.03 |
| 22 :5 | 0.289 ± 0.04 | 0.324 ± 0.02 | 0.692 ± 0.05 | 0.212 ± 0.02 |
| 22 :4 | 0.169 ± 0.02 | 0.173 ± 0.02 | 0.209 ± 0.02 | 0.072 ± 0.00 |
| 22 :1 | 0.051 ± 0.01 | 0.045 ± 0.00 | 0.086 ± 0.08 | 0.027 ± 0.00 |
| 22 :0 | 0.047 ± 0.01 | 0.03 ± 0.00  | 0.088 ± 0.01 | 0.061 ± 0.01 |
| 24 :1 | 0.018 ± 0.00 | 0.017 ± 0.00 | 0.027 ± 0.00 | 0.011 ± 0.00 |
| 24 :0 | 0.058 ± 0.01 | 0.032 ± 0.01 | 0.09 ± 0.00 | 0.054 ± 0.01 |
| 26 :0 | 0.019 ± 0.00 | 0.011 ± 0.00 | 0.029 ± 0.00 | 0.016 ± 0.00 |