**Table S1**: Levels [µmol/mol precursor] of furan, 2-methylfuran (2-MF), 3-methylfuran (3-MF), 2-ethylfuran (2-EF), furfural (2-FA), and 2-pentylfuran (2-PF) (mean ± SD, *n*=3) obtained by heat treatment of the polyunsaturated fatty acids *α*‑linolenic acid (ALA), *α*‑linolenic acid methyl ester (ALA-ME), *γ*‑linolenic acid (GLA), DHA ethyl ester (DHA-EE), eicosapentaenoic acid (EPA), and linoleic acid (LA) in model A at pH 7 **(a)** and ALA-ME and DHA-EE in model B **(b)**.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **(a)** | Furan | 2-MF | 3-MF | 2-EF | 2-FA | 2-PF |
| DHA-EE  (22:6*n*-3) | 12423.9  ± 331.2 | 646.3  ± 32.2 | nd1 | 14762.9  ± 847.7 | 535.2  ± 77.6 | 24.6  ± 7.7 |
| ALA-ME  (18:3*n*-3) | 8603.5  ± 1102.8 | 463.7  ± 28.1 | nd | 14172.4  ± 457.8 | 233.0  ± 22.3 | 39.2  ± 0.4 |
| EPA  (20:5*n*-3) | 2733.0  ± 311.4 | 135.2  ± 8.4 | nd | 3553.4  ± 580.7 | 69.7  ± 6.7 | 21.7  ± 6.0 |
| ALA  (18:3*n*-3) | 1699.9  ± 15.3 | 62.2  ± 1.0 | nd | 2784.1  ± 96.7 | 37.6  ± 4.1 | 32.1  ± 3.1 |
| LA  (18:2*n*-6) | 2065.7  ± 103.3 | 8.3  ± 1.0 | nd | 8.9  ± 2.5 | 5.2  ± 0.6 | 5671.1  ± 402.6 |
| GLA  (18:3*n*-6) | 2173.0  ± 220.8 | 48.7  ± 4.5 | nd | nd | 109.7  ± 8.1 | 5941.4  ± 803.5 |
| **(b)** | | | | | | | |
| DHA-EE  (22:6*n*-3) | 5218.2  ± 1001.3 | 450.0  ± 19.3 | nd | 2622.9  ± 517.0 | nd | nd |
| ALA-ME  (18:3*n*-3) | 1693.2  ± 167.7 | 119.3  ± 36.0 | nd | 1101.9  ± 438.3 | nd | nd |

1 nd = not detected (< limit of detection)