**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)