**Supplementary Table 1**. Fatty acid composition (percentage of

fatty acids) of the dietary oils

|  |  |
| --- | --- |
|  | **Oils** |
|  | **Fish** | **Wt-CO** | **RO** | **Tr-CO** |
|  |  |  |  |  |
| Total saturated1 | 25.5 | 9.9 | 7.7 | 18.5 |
| Total monoenes2 | 40.9 | 36.4 | 67.5 | 16.2 |
| 18:2n-6 | 1.3 | 19.3 | 16.4 | 20.9 |
| 20:2n-6 | 0.2 | 1.5 | 0.1 |  |
| 20:3n-6 | 0.2 | n.d. | n.d. | 0.7 |
| 20:4n-6 | 0.6 | n.d. | n.d. | 2.1 |
| Total n-6 PUFA3 | 2.7 | 20.9 | 16.5 | 25.2 |
| 18:3n-3 | 1.0 | 31.9 | 8.3 | 10.7 |
| 20:3n-3 | 0.1 | 1.0 | n.d. | n.d. |
| 20:4n-3 | n.d. | n.d. | n.d. | 2.2 |
| 20:5n-3 | 11.6 | n.d. | n.d. | 10.5 |
| 22:5n-3 | 1.3 | n.d. | n.d. | 6.0 |
| 22:6n-3 | 9.8 | n.d. | n.d. | 9.0 |
| Total n-3 PUFA4 | 28.0 | 32.9 | 8.3 | 40.1 |
| Total PUFA | 33.6 | 53.7 | 24.8 | 65.3 |
| Total n-3 LC-PUFA | 22.8 | n.d. | n.d. | 27.7 |

1 Contains 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

 2 Contains 16:1n-7, 18:1n-9, 18:1n-7, 20:1n-9, 22:1n-11 and 22:1n-9

 3 Contains 18:2n-6

 4 Contains 18:4n-3

LC-PUFA, long-chain polyunsaturated fatty acids (sum of 20:4n-3,

20:5n-3, 22:5n-3 and 22:6n-3).

 n.d., not detected; RO, rapeseed oil; Tr-CO, oil from transgenic Camelina;

 Wt-CO, wild-type Camelina oil.