Supplemental table 1. Fatty acid composition (% total fatty acids) of 30 days after hatch larvae obtained from gilthead sea bream broodstock after feeding broodstock diets with progressive substitution of FO\*.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **100 FO** | **40FO****60LO** | **20FO****80LO†** | **100LO** |  |  ***P*** |
| **Lipids..** | 17.60±2.54 | 18.70±2.10 |  | 18.71±1.20 |  | *0.632* |
| **FA(% of total)** |  |  |  |  |  |  |
| **14:0** |  0.90±0.07  |  0.75±0.00  |  |  0.81±0.07  |  | *0.107* |
| **14:1n-5** |  0.33±0.24  |  0.47±0.02  |  |  0.45±0.00  |  | *0.674* |
| **15:1n-5** |  0.04±0.01  |  0.04±0.00  |  |  0.04±0.00  |  | *0.635* |
| **16:0iso** |  0.34±0.08  |  0.33±0.00  |  |  0.33±0.01  |  | *0.319* |
| **16:0** |  16.53±0.59  |  16.85±0.71  |  |  16.00±0.20  |  | *0.741* |
| **16:1n-7** |  2.13±0.88  |  1.46±0.01  |  |  1.56±0.13  |  | *0.497* |
| **16:1n-5** |  0.78±0.06  |  0.72±0.02  |  |  0.70±0.01  |  | *0.176* |
| **16:2n-6** |  0.04±0.00  |  0.04±0.01  |  |  0.05±0.00  |  | *0.302* |
| **16:2n-4** |  0.16±0.07  |  0.10±0.04  |  |  0.15±0.02  |  | *0.871* |
| **17:0** |  0.60±0.10  |  0.60±0.00  |  |  0.60±0.00  |  | *0.999* |
| **16:3n-4** |  0.21±0.08  |  0.23±0.00  |  |  0.23±0.01  |  | *0.902* |
| **16:3n-3** |  0.07±0.01  |  0.06±0.01  |  |  0.08±0.01  |  | *0.924* |
| **16:3n-1** |  0.79±0.20  |  0.75±0.05  |  |  0.66±0.02  |  | *0.644* |
| **16:4n-3** |  0.33±0.03  |  0.34±0.00  |  |  0.32±0.02  |  | *0.735* |
| **16:4n-1** |  0.20±0.02  |  0.19±0.00  |  |  0.17±0.01  |  | *0.238* |
| **18:0** |  9.57±0.34  |  9.29±0.06  |  |  9.26±0.07  |  | *0.333* |
| **18:1n-9** |  15.40±0.89  |  14.05±1.05  |  |  15.61±0.11  |  | *0.614* |
| **18:1n-7** |  5.80±0.78  |  5.24±0.31  |  |  5.77±0.12  |  | *0.805* |
| **18:1n-5** |  0.25±0.12  |  0.16±0.00  |  |  0.17±0.02  |  | *0.494* |
| **18:2n-9** |  0.26±0.03  |  0.25±0.01  |  |  0.26±0.02  |  | *0.966* |
| **18:2n-6** |  6.32±0.08  |  6.07±1.30  |  |  7.64±0.37  |  | *0.216* |
| **18:2n-4** |  0.06±0.00  |  0.06±0.01  |  |  0.07±0.01  |  | *0.435* |
| **18:3n-6** |  0.23±0.05  |  0.23±0.02  |  |  0.25±0.02  |  | *0.856* |
| **18:3n-4** |  0.05±0.01  |  0.04±0.01  |  |  0.05±0.01  |  | *0.973* |
| **18:3n-3** |  8.82±3.41  |  9.02±0.81  |  |  9.97±0.28  |  | *0.870* |
| **18:4n-3** |  1.10±0.44  |  1.20±0.15  |  |  1.28±0.18  |  | *0.229* |
| **18:4n-1** |  0.03±0.03  |  0.01±0.00  |  |  0.02±0.01  |  | *0.471* |
| **20:0** |  0.26±0.05  |  0.23±0.01  |  |  0.25±0.00  |  | *0.868* |
| **20:1n-9** |  0.10±0.06  |  0.06±0.02  |  |  0.09±0.00  |  | *0.796* |
| **20:1n-7** |  0.87±0.18  |  0.68±0.13  |  |  0.89±0.04  |  | *0.713* |
| **20:1n-5** |  0.27±0.09  |  0.20±0.00  |  |  0.21±0.01  |  | *0.513* |
| **20:2n-9** |  0.15±0.12  |  0.09±0.01  |  |  0.08±0.02  |  | *0.594* |
| **20:2n-6** |  0.43±0.00  |  0.37±0.06  |  |  0.46±0.01  |  | *0.362* |
| **20:3n-9** |  0.12±0.12  |  0.08±0.04  |  |  0.05±0.03  |  | *0.589* |
| **20:3n-6** |  0.38±0.13  |  0.33±0.05  |  |  0.29±0.03  |  | *0.531* |
| **20:4n-6** |  3.07±0.09  |  3.41±0.28  |  |  3.03±0.02  |  | *0.514* |
| **20:3n-3** |  0.64±0.56  |  1.01±0.08  |  |  1.11±0.03  |  | *0.423* |
| **20:4n-3** |  0.76±0.11  |  0.74±0.08  |  |  0.80±0.07  |  | *0.865* |
| **20:5n-3** |  3.69±0.41  |  3.78±0.07  |  |  3.99±0.14  |  | *0.585* |
| **22:1n-11** |  0.18±0.05  |  0.15±0.14  |  |  0.35±0.00  |  | *0.185* |
| **22:1n-9** |  0.35±0.12  |  0.22±0.05  |  |  0.29±0.00  |  | *0.513* |
| **22:4n-6** |  0.11±0.03  |  0.09±0.00  |  |  0.09±0.00  |  | *0.616* |
| **22:5n-6** |  3.47±0.74  |  4.23±0.94  |  |  3.00±0.15  |  | *0.713* |
| **22:5n-3** |  0.67±0.12  |  0.58±0.10  |  |  0.67±0.07  |  | *0.971* |
| **22:6n-3** |  12.65±4.07  |  14.96±2.37  |  |  11.59±0.02  |  | *0.864* |
| **Total FA** |  |  |  |  |  |  |
| **Saturated** |  28.32±0.99  |  27.72±0.74  |  |  26.91±0.34  |  | *0.473* |
| **n-3** |  26.73±1.27  |  31.69±1.07  |  |  29.80±0.54  |  | *0.194* |
| **n-6** |  13.17±0.75  |  14.76±0.13  |  |  14.81±0.17  |  | *0.274* |
| **n-9** |  17.83±0.84  |  14.67±1.12  |  |  16.34±0.12  |  | *0.531* |
| **n-3 LC-PUFA** |  16.25±3.66  |  21.08±2.04  |  |  18.16±0.05  |  | *0.852* |

\* Mean±SD, n=3 (one pool of whole larvae from per tank), no statistical differences were found among the groups (P>0.05).

† No data available.