**Table S3. Fatty acid composition (% of total fatty acids) for the control and the innovative feeds used in the experiment.**

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| --- | --- | --- |
| **% of total fatty acids** | **Control diet** | **Innovative diet** |
| 14:0 | 3.58 | 4.68 |
| 14:1 | 0.03 | 0.05 |
| 15:0 | 0.30 | 0.40 |
| 16:0 | 14.29 | 15.25 |
| 16:1 n-9 | 0.24 | 0.26 |
| 16:1 n-7 | 4.07 | 4.56 |
| 17:0 | 0.26 | 0.29 |
| 17:1 n-7 | 0.18 | 0.25 |
| 18:0 | 3.49 | 3.16 |
| 18:1 n-9 | 28.29 | 17.68 |
| 18:1 n-7 | 3.27 | 2.71 |
| 18:2 n-6 | 12.71 | 10.69 |
| 18:3 n-6 | 0.15 | 0.10 |
| 18:3 n-3 | 3.99 | 2.89 |
| 18:4 n-3 | 1.38 | 2.21 |
| 20:0 | 0.35 | 0.25 |
| 20:1 n-11 | 0.44 | 0.83 |
| 20:1 n-9 | 4.43 | 7.03 |
| 20:2 n-6 | 0.56 | 0.36 |
| 20:3 n-6 | 0.14 | 0.09 |
| 20:4 n-6 (arachidonic acid) | 0.52 | 0.60 |
| 20:3 n-3 | 0.31 | 0.15 |
| 20:5 n-3 (eicosapentaenoic acid) | 4.94 | 5.59 |
| 22:0 | 0.17 | 0.15 |
| 22:1 n-11 | 4.72 | 9.87 |
| 22:1 n-9 | 0.68 | 1.00 |
| 24.0 | 0.09 | 0.06 |
| 22:6 n-3 (docosahexaenoic acid) | 5.83 | 8.01 |
| 24:1 n-9 | 0.60 | 0.88 |
| **Total saturated fatty acids** | 22.52 | 24.21 |
| **Total Monounsaturated fatty acids** | 46.96 | 45.11 |
| **Total n-9 long-chain polyunsaturated fatty acids** | 34.25 | 26.84 |
| **Total n-6 long-chain polyunsaturated fatty acids** | 14.08 | 11.84 |
| **Total n-3 long-chain polyunsaturated fatty acids** | 16.44 | 18.85 |