**Supplementary Table S4.** Effect of stearic acid supplementation and MFD induction by conjugated linoleic acid *trans*-10, *cis*-12 CLA of dairy ewes on the milk fatty acid profile.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Treatments1 | | | |  |  |
| Fatty acids, % | CONT | CLA | SA | CLASA | SEM2 | P-value3 | |
| C4:0 | 0.59 | 0.77 | 0.69 | 0.76 | 0.20 | 0.57 | |
| C6:0 | 0.68ab | 0.73ab | 0.99a | 0.56b | 0.35 | 0.05 | |
| C8:0 | 0.75ab | 0.89ab | 1.30a | 0.44b | 0.47 | 0.006 | |
| C10:0 | 5.2ab | 3.88ab | 5.81a | 3.16b | 1.83 | 0.02 | |
| C10:1 | 0.50a | 0.16b | 0.48a | 0.19b | 0.03 | 0.001 | |
| C12:0 | 5.30 | 3.38 | 4.32 | 3.95 | 0.68 | 0.15 | |
| C13:0 | 0.31a | 0.14b | 0.29a | 0.15b | 0.03 | 0.001 | |
| C14:0 | 11.9 | 10.8 | 10.3 | 12.4 | 0.79 | 0.23 | |
| C14:1 | 0.47 | 0.23 | 0.30 | 0.32 | 0.12 | 0.36 | |
| C15:0 | 1.22b | 0.84c | 1.54a | 0.93bc | 0.13 | 0.004 | |
| C16:0 | 24.70 | 27.00 | 27.70 | 23.30 | 3.01 | 0.71 | |
| C16:1 | 1.43a | 0.82b | 1.17a | 1.03b | 0.23 | 0.02 | |
| C17:0 | 0.79a | 0.75ab | 0.81a | 0.61b | 0.09 | 0.02 | |
| C18:0 | 7.49b | 11.70a | 8.62b | 11.37a | 1.02 | 0.01 | |
| *cis*-9 C18:1 | 16.67 | 17.70 | 16.90 | 17.49 | 1.19 | 0.91 | |
| *trans*-10 C18:1 | 1.29b | 3.65a | 2.74a | 2.45ab | 0.48 | 0.02 | |
| *trans*-11 C18:1 | 1.60 | 1.60 | 1.66 | 1.65 | 0.22 | 0.99 | |
| *cis*-9*, trans*-11 CLA | 0.85 | 0.88 | 0.85 | 0.74 | 0.10 | 0.78 | |
| *trans*-10*, cis*-12 CLA | 0.03b | 0.27a | 0.04b | 0.22a | 0.03 | 0.003 | |
| C20:0 | 0.16b | 0.21a | 0.18b | 0.20a | 0.01 | 0.08 | |
| ∑ Unidentified4 | 0.15 | 0.13 | 0.15 | 0.15 | 0.04 | 0.84 | |
| ∑<C165 | 62.85a | 52.40b | 58.78ab | 52.63b | 2.84 | 0.04 | |
| ∑SFA6 | 67.66 | 62.17 | 65.10 | 62.01 | 2.37 | 0.29 | |
| ∑MUFA7 | 22.61 | 25.65 | 24.21 | 24.03 | 1.33 | 0.49 | |
| ∑PUFA8 | 3.78b | 4.78a | 4.19ab | 3.87b | 0.27 | 0.07 | |
| Desaturase indexes9 |  |  |  |  |  |  | |
| 14:1/(14:0+14:1) | 0.03 | 0.02 | 0.02 | 0.02 | 0.009 | 0.27 | |
| 16:1/(16:0+16:1) | 0.03a | 0.02b | 0.03a | 0.02b | 0.002 | 0.02 | |
| *cis-9* 18:1 */*  (18:0 + *cis*-9 18:1*)* | 0.69a | 0.60b | 0.67a | 0.61b | 0.02 | 0.0009 | |
| *cis*-9*, trans*-11 CLA / (*trans*-11 18:1 *+* *cis*-9*, trans*-11 CLA) | 0.34 | 0.37 | 0.34 | 0.31 | 0.03 | 0.59 | |

1Treatments were Control (CONT) in the basal diet, CLA (6.4 g/animal/day *trans*-10*, cis*-12 CLA), SA (28g/animal/day C18:0), and CLASA (6.4 g of *trans*-10*, cis*-12 CLA and 28g of C18:0 animal/day);

2Standard error of the mean;

3Probability for the fixed effects of treatments;

4Unidentified fatty acids;

5Sum of fatty acid less than 16 carbons;

6Saturated fatty acids sum;

7Monounsaturated fatty acids sum;

8Polyunsaturated fatty acids sum;

9Product / (substrate + product) relationship for the SCD gene;

Averages followed by different lowercase letters differ from each other (*P* <0.05);