**Supplementary Table S3.** Milk composition (g/100 g FA) of selected fatty acids of early lactation Holstein and Montbéliarde cows under two low-input production systems.

|  | System 1 | | |  | | Breed 2 | |  | | | *P*–value 3 | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ext | Semi |  | | Hols | | Mont | | SEM | System | | | Breed | Syst × Breed | | Syst × Time | Breed × Time | | Syst × Breed × Time | |
| 4:0 | 3.57 | 3.42 |  | | 3.43 | | 3.55 | | 0.06 | 0.05 | | 0.12 | | 0.03 | < 0.01 | | | 0.29 | | < 0.05 | |
| 6:0 | 2.02 | 2.09 |  | | 2.00 | | 2.11 | | 0.04 | 0.17 | | 0.03 | | 0.13 | 0.99 | | | < 0.05 | | < 0.01 | |
| 8:0 | 1.03 | 1.15 |  | | 1.04 | | 1.14 | | 0.03 | < 0.01 | | < 0.01 | | 0.33 | 0.85 | | | < 0.01 | | 0.10 | |
| *cis-*9 10:1 | 0.18 | 0.23 |  | | 0.20 | | 0.20 | | 0.01 | < 0.001 | | 0.75 | | 0.84 | 0.25 | | | 0.09 | | 0.28 | |
| *cis*-9 14:1 | 0.54 | 0.69 |  | | 0.65 | | 0.58 | | 0.03 | 0.001 | | < 0.10 | | 0.30 | 0.15 | | | 0.40 | | 0.40 | |
| 15:0 | 1.03 | 1.01 |  | | 1.00 | | 1.05 | | 0.02 | 0.42 | | < 0.10 | | 0.83 | 0.21 | | | < 0.10 | | 0.30 | |
| *cis*-9 16:1 | 1.39 | 1.59 |  | | 1.59 | | 1.39 | | 0.04 | < 0.01 | | 0.001 | | < 0.01 | 0.71 | | | < 0.10 | | 0.21 | |
| 17:0 | 0.86 | 0.83 |  | | 0.85 | | 0.84 | | 0.01 | 0.19 | | 0.62 | | 0.22 | 0.61 | | | < 0.05 | | 0.12 | |
| *trans*-11 18:1 | 3.25 | 3.11 |  | | 3.24 | | 3.12 | | 0.14 | 0.45 | | 0.46 | | 0.55 | 0.73 | | | < 0.10 | | 0.83 | |
| *cis*-9,cis-12 18:2 | 1.18 | 1.35 |  | | 1.29 | | 1.24 | | 0.03 | < 0.001 | | 0.24 | | 0.47 | 0.61 | | | 0.50 | | 0.71 | |
| *cis*-9,*trans*-11 CLA4 | 1.14 | 1.23 |  | | 1.17 | | 1.20 | | 0.06 | 0.24 | | 0.76 | | 0.63 | 0.56 | | | < 0.10 | | 0.99 | |
| 18:3n-3 | 0.82 | 0.76 |  | | 0.80 | | 0.79 | | 0.02 | < 0.10 | | 0.72 | | 0.66 | 0.23 | | | 0.72 | | 0.34 | |
| 20:0 | 0.139 | 0.104 |  | | 0.119 | | 0.124 | | 0.004 | < 0.001 | | 0.25 | | < 0.01 | 0.72 | | | < 0.10 | | 0.48 | |
| 20:3n-6 | 0.040 | 0.046 |  | | 0.044 | | 0.040 | | 0.002 | < 0.01 | | 0.18 | | 0.32 | 0.46 | | | 0.26 | | 0.48 | |
| 20:4n-6 | 0.086 | 0.097 |  | | 0.095 | | 0.088 | | 0.003 | 0.001 | | < 0.05 | | 0.81 | 0.91 | | | 0.58 | | < 0.10 | |
| 22:0 | 0.058 | 0.037 |  | | 0.046 | | 0.049 | | 0.002 | < 0.001 | | 0.18 | | < 0.001 | 0.47 | | | 0.82 | | < 0.10 | |
| 22:5n-3 + 26:0 | 0.150 | 0.139 |  | | 0.141 | | 0.147 | | 0.004 | < 0.05 | | 0.28 | | < 0.10 | 0.80 | | | < 0.01 | | < 0.05 | |
| 24:0 | 0.040 | 0.026 |  | | 0.030 | | 0.036 | | 0.001 | < 0.001 | | 0.001 | | < 0.001 | 0.56 | | | 0.84 | | < 0.05 | |
| ∑ Saturated | 59.9 | 60.1 |  | | 59.5 | | 60.5 | | 0.5 | 0.80 | | 0.15 | | 0.58 | 0.82 | | | 0.68 | | < 0.01 | |
| ∑ Monounsaturated | 33.7 | 33.3 |  | | 34.0 | | 33.0 | | 0.5 | 0.53 | | < 0.10 | | 0.57 | 0.83 | | | 0.86 | | < 0.01 | |
| ∑ Polyunsaturated | 3.97 | 4.26 |  | | 4.11 | | 4.12 | | 0.09 | 0.01 | | 0.87 | | 0.58 | 0.98 | | | 0.05 | | 0.24 | |
| ∑ OBCFA5 | 4.48 | 4.37 |  | | 4.41 | | 4.43 | | 0.06 | 0.13 | | 0.83 | | 0.84 | < 0.05 | | | 0.05 | | 0.68 | |
| 1 Production system, extensive (Ext) and semi-extensive (Semi).  2 Holstein-Friesian (Hols) and Montbéliarde (Mont).  3 Time effect (weeks 2, 3, 5, 8, 12 of lactation) was significant for all variables, except for ∑ Polyunsaturated.  4Contains trans-7,*cis-*9 and *trans*-8, *cis*-10 CLA as minor components.  5 Sum of odd- and branched-chain FA. | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | |