Supplementary Table S1. BW, IgG and IgM concentrations and Complement system activity (TCA and ACA) of lambs from NR, C4 and C8 groups during colostrum and milk feeding period.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Rearing system | | | Effects | | |
|  | Days | NR | C4 | C8 | RS.1 | D.2 | RS.\*D. |
| BW |  |  |  |  | 0.001 | >0.0001 | >0.0001 |
| (kg) | 0 | 4.15a | 4.25a | 3.94a |  |  |  |
|  | 1 | 4.42a,z | 4.05a,y | 3.77a,y |  |  |  |
|  | 2 | 4.69a,z | 3.95a,y | 3.58a,y |  |  |  |
|  | 3 | 4.95ab,z | 3.96a,y | 3.65a,y |  |  |  |
|  | 4 | 5.20b,z | 4.00a,y | 3.72a,y |  |  |  |
|  | 5 | 5.43b,z | 4.06a,y | 3.79a,y |  |  |  |
|  | 20 | 8.96c,z | 6.36b,y | 6.07b,y |  |  |  |
|  | End | 10.35d | 10.10c | 9.61c |  |  |  |
|  | SEM | 0.216 | 0.275 | 0.332 |  |  |  |
| IgG |  |  |  |  | 0.0004 | >0.0001 | >0.0001 |
| (mg/mL) | 0 | nd | nd | nd |  |  |  |
|  | 1 | 16.79a,z | 5.81a,y | 17.74a,z |  |  |  |
|  | 2 | 13.84ab,z | 6.45a,y | 17.44a,z |  |  |  |
|  | 3 | 12.75b,z | 5.83a,y | 15.86ab,z |  |  |  |
|  | 4 | 12.07b,z | 5.09a,y | 15.91ab,x |  |  |  |
|  | 5 | 11.43b,z | 6.30a,y | 14.66b,z |  |  |  |
|  | 20 | 6.47c,zy | 4.44b,y | 9.67c,z |  |  |  |
|  | End | 5.22d,z | 2.18c, y | 5.62d,z |  |  |  |
|  | SEM | 0.628 | 0.452 | 1.004 |  |  |  |
| IgM |  |  |  |  | 0.0005 | >0.0001 | >0.0001 |
| (mg/mL) | 0 | nd | nd | nd |  |  |  |
|  | 1 | 1.63a,z | 0.35a,y | 2.84a,x |  |  |  |
|  | 2 | 1.24ab,z | 0.47a,y | 2.58a,x |  |  |  |
|  | 3 | 1.19b,z | 0.45a,y | 1.83b,x |  |  |  |
|  | 4 | 1.01b,z | 0.41a,y | 1.51b,z |  |  |  |
|  | 5 | 0.90c,z | 0.41a,y | 1.29c,z |  |  |  |
|  | 20 | 0.70c | 0.54b | 0.78d |  |  |  |
|  | End | 0.78c | 0.78c | 0.71d |  |  |  |
|  | SEM | 0.069 | 0.040 | 0.164 |  |  |  |
| TCA |  |  |  |  | 0.0012 | >0.0001 | >0.0001 |
| Hemolysis | 0 | nd | nd | nd |  |  |  |
| Rate (%) | 1 | 9.05a,z | 1.04a,y | 1.43a,y |  |  |  |
|  | 2 | 20.56b,z | 2.84a,y | 2.85ab,y |  |  |  |
|  | 3 | 31.36c,z | 8.33b,y | 8.16b,y |  |  |  |
|  | 4 | 36.58cd,z | 16.15c,y | 28.08c,zy |  |  |  |
|  | 5 | 42.43d,z | 17.43c,y | 29.67c,y |  |  |  |
|  | 20 | 50.75e,z | 31.13d,y | 30.61c,y |  |  |  |
|  | end | 53.17e | 55.26e | 56.13e |  |  |  |
|  | SEM | 1.810 | 1.809 | 4.502 |  |  |  |
| ACA |  |  |  |  | 0.0002 | >0.0001 | >0.0001 |
| Hemolysis | 0 | nd | nd | nd |  |  |  |
| Rate (%) | 1 | 7.676a,z | 0.53a,y | 0.53a,y |  |  |  |
|  | 2 | 15.05b,z | 4.86b,y | 2.06b,y |  |  |  |
|  | 3 | 24.48c,z | 7.09c,y | 7.11c,y |  |  |  |
|  | 4 | 27.29c,z | 12.59d,y | 26.45d,z |  |  |  |
|  | 5 | 36.26d,z | 13.02d,y | 24.81d,x |  |  |  |
|  | 20 | 40.56de,z | 27.27e,y | 26.40d,y |  |  |  |
|  | end | 43.80e | 39.23f | 45.40e |  |  |  |
|  | SEM | 2.152 | 2.401 | 3.650 |  |  |  |

1Rearing System; 2 Days.

z–y Means within a row with different superscript letters for an specific item differ significantly (P < 0.05).

a–d Means within a column for a specific item with different superscript letters differ significantly (P < 0.05).

TCA: Total complement system activity; ACA: Alternative complement system activity; nd: non-detectable.; NR: Natural rearing lambs; C4: Artificial rearing lambs fed with a colostrum amount equivalent to 4 g of IgG/kg of BW at birth; C8: Artificial rearing lambs fed with a colostrum amount equivalent to 8 g of IgG/kg of BW at birth.