Table S2 Effect of dietary treatments on the *in vitro* rumen fatty acid composition

| Fatty acid,  g/100g total FA | Treatment | | | | | | | SEM | *P*-value | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CON | FUM | BIO | MEN | FB | FM | FBM | FUM | BIO | MEN | FB | FM | FBM |
| C14:0 | 3.89 | 3.75 | 4.01 | 3.56 | 3.73 | 3.41 | 3.32 | 0.329 | 0.121 | 0.873 | 0.020 | 0.564 | 0.885 | 0.860 |
| C15:0 | 3.74 | 3.53 | 3.94 | 3.38 | 3.61 | 3.32 | 3.29 | 0.298 | 0.113 | 0.457 | 0.035 | 0.527 | 0.735 | 0.747 |
| iso C15:0 | 8.03 | 7.93 | 8.33 | 7.64 | 7.64 | 7.08 | 6.57 | 0.739 | 0.073 | 0.760 | 0.039 | 0.315 | 0.415 | 0.781 |
| C16:0 | 30.68 | 28.19 | 30.91 | 28.55 | 28.64 | 27.90 | 28.06 | 0.807 | <0.001 | 0.529 | 0.012 | 0.936 | 0.068 | 0.778 |
| iso C16:0 | 1.85 | 1.80 | 1.91 | 1.65 | 1.75 | 1.69 | 1.59 | 0.154 | 0.344 | 0.844 | 0.042 | 0.379 | 0.727 | 0.762 |
| trans-9 C16:1 | 0.59 | 0.59 | 0.62 | 0.53 | 0.61 | 0.58 | 0.53 | 0.042 | 0.945 | 0.748 | 0.032 | 0.242 | 0.769 | 0.156 |
| cis-9 C16:1 | 0.32 | 0.33 | 0.31 | 0.77 | 0.31 | 0.38 | 0.36 | 0.231 | 0.216 | 0.917 | 0.124 | 0.982 | 0.186 | 0.982 |
| iso C17:0 | 2.38 | 2.36 | 2.48 | 1.75 | 2.32 | 2.22 | 2.09 | 0.246 | 0.413 | 0.967 | 0.016 | 0.524 | 0.157 | 0.805 |
| C17:0 | 0.60 | 0.59 | 0.63 | 0.58 | 0.62 | 0.59 | 0.58 | 0.048 | 0.546 | 0.426 | 0.400 | 0.597 | 0.939 | 0.464 |
| C18:0 | 14.76 | 12.85 | 14.89 | 12.62 | 12.91 | 12.34 | 11.47 | 1.697 | 0.059 | 0.810 | 0.054 | 0.726 | 0.447 | 0.598 |
| trans-10 C18:1 | 0.44 | 0.48 | 0.52 | 0.50 | 0.48 | 0.49 | 0.50 | 0.065 | 0.688 | 0.332 | 0.375 | 0.312 | 0.545 | 0.971 |
| trans-11 C18:1 | 2.80 | 2.72 | 2.88 | 2.61 | 3.07 | 3.01 | 2.79 | 0.313 | 0.366 | 0.653 | 0.636 | 0.952 | 0.558 | 0.145 |
| cis-9 C18:1 | 9.03 | 10.9 | 8.68 | 11.1 | 11.0 | 11.5 | 11.9 | 0.966 | <0.001 | 0.942 | 0.002 | 0.479 | 0.085 | 0.768 |
| cis-11 C18:1 | 1.90 | 1.83 | 2.03 | 2.05 | 1.87 | 1.99 | 2.15 | 0.155 | 0.392 | 0.248 | 0.055 | 0.894 | 0.712 | 0.626 |
| cis-9,cis-12 C18:2 | 14.23 | 17.39 | 12.70 | 17.82 | 16.58 | 18.32 | 19.66 | 2.000 | 0.029 | 0.686 | 0.036 | 0.472 | 0.524 | 0.448 |
| trans-9,12,15 C18:3 | 3.69 | 3.76 | 4.03 | 3.96 | 3.85 | 4.31 | 4.34 | 0.408 | 0.709 | 0.367 | 0.046 | 0.505 | 0.546 | 0.889 |

CON, Control; FUM, Fumarate; BIO, Biotin; MON, Monensin; FB, FUM + BIO; FM, FUM + MON; FBM, FUM + BIO + MON; SEM, Standard error of means.