Table 2: Temporal changes of the relative abundance of top phyla in NP microbiome of clinically healthy stocker calves (n = 24).

|  |  |  |
| --- | --- | --- |
| Phylum | Relative abundance of the bacterial phylum | *P-*value |
| Day 0 | Day 7 | Day 14 | Day 21 |
| *Firmicutes* | 0.67 ± 0.04b | 0.80 ± 0.04a | 0.72 ± 0.04ab | 0.65 ± 0.05b | 0.03 |
| *Proteobacteria* | 0.15 ± 0.03 | 0.10 ± 0.03 | 0.22 ± 0.04 | 0.29 ± 0.04 | 0.13 |
| *Actinobacteriota* | 0.12 ± 0.02a | 0.05 ± 0.02b | 0.04 ± 0.02b | 0.02 ± 0.02b | < 0.0001 |
| *Bacteroidota* | 0.02 ± 0.007a | 0.02 ± 0.007ab | 0.01 ± 0.008c | 0.03 ± 0.008bc | 0.001 |
| *Verrucomicrobiota* | 0.004 ± 0.0007a | 0.003 ± 0.00008ab | 0.002 ± 0.0009b | 0.002 ± 0.0009b | 0.001 |

Day 0, Day 7, Day 14, and Day 21 denotes the day relative to calves’ arrival to the stocker farm.

abWithin each row, means with unlike letters differ significantly (*P* < 0.05).