Table 5. Relative abundance of different genera based on the number of antimicrobial treatments (NumTrt) and day in NP microbiome of stocker cattle.

|  |  |  |
| --- | --- | --- |
| Genus  | NumTrt | Day |
| 0x | 1x | 2x | *P*-value | Day 0 | Day 7 | Day 14 | Day 21 | *P*-value |
| *\*Mycoplasma* | 0.24 ± 0.03 | 0.31 ± 0.04 | 0.31 ± 0.06 | 0.30 | 0.03 ± 0.04c | 0.52 ± 0.04a | 0.32 ± 0.05b | 0.25 ± 0.05b | <0.0001 |
| *Histophilus* | 0.08 ± 0.02 | 0.11 ± 0.03 | 0.12 ± 0.05 | 0.60 | 0.0000024 ± 0.04b | 0.03 ± 0.03b | 0.17 ± 0.04a | 0.22 ± 0.04a | <0.0001 |
| *Pasteurella* | 0.05 ± 0.009a | 0.005 ± 0.01b | 0.006 ± 0.02ab | 0.04 | 0.03 ± 0.02 | 0.01 ± 0.01 | 0.01 ± 0.02 | 0.02 ± 0.02 | 0.34 |
| *Lactobacillus* | 0.05 ± 0.004 | 0.05 ± 0.006 | 0.04 ± 0.008 | 0.06 | 0.07 ± 0.007a | 0.03 ± 0.007b | 0.05 ± 0.007b | 0.04 ± 0.007b | 0.001 |
| *Bacillus* | 0.1133 ± 0.008a | 0.1193 ± 0.01a | 0.1108 ± 0.01b | 0.03 | 0.15 ± 0.02a | 0.07 ± 0.02b | 0.09 ± 0.02b | 0.12 ± 0.02b | 0.007 |

\*Numtrt by day effect (presented in Figure 6).

1NumTrt was defined based on the number of antibiotic treatments they received (**0x**: never treated; **1x**: treated once; **2x**: treated 2 times).

2Day 0, Day 7, Day 14, and Day 21 denote the day relative to calves’ arrival to the stocker farm.

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