

Supplementary Table 3. Relative abundance (median and range) of the most abundant taxa identified in healthy horses and diarrheic horses with or without laminitis

Phylum	Family	Genus	Healthy N = 36	Laminitis N = 15	Non-Laminitis N = 39
Bacteroidetes	Unclass.	Unclass.	20.5 ^a [12.8 – 35.5]	0.68 ^b [0.025 – 9.0]	1.2 ^b [0.011 – 15.9]
Firmicutes	Lachnospiraceae	Unclass.	8.7 ^a [1.5 – 20.8]	2.7 ^a [0.19 – 18.5]	7.1 ^a [0.023 – 32.2]
Firmicutes	Ruminococcaceae	Unclass.	6.8 ^a [1.4 – 12.5]	1.6 ^b [0.21 – 13.7]	3.6 ^{ab} [0.021 – 22.8]
Firmicutes	Clostridiales Unclass.	Unclass.	5.4 ^a [0.75 – 8.4]	4.3 ^a [0.90 – 21.2]	5.1 ^a [0.014 – 14.0]
Verrucomicrobia	5_family_incertae_sedis	5_genus_incertae_sedis	6.7 ^a [1.7 – 16.5]	0.012 ^b [0.0051 – 5.9]	0.46 ^b [0.0041 – 9.5]
Firmicutes	Streptococcaceae	<i>Streptococcus</i>	0.026 ^a [0 – 7.5]	2.4 ^b [0.011 – 54.1]	1.0 ^b [0.0059 – 52.6]
Firmicutes	Clostridiaceae_1	<i>Clostridium_sensu_stricto</i>	0.058 ^a [0.00090 – 1.6]	0.18 ^{ab} [0.021 – 38.1]	1.0 ^b [0.00080 – 66.4]
Firmicutes	Enterococcaceae	<i>Enterococcus</i>	0.0014 ^a [0 – 0.026]	0.4 ^b [0.0066 – 7.6]	0.061 ^b [0.0017 – 94.5]
Firmicutes	Unclass.	Unclass.	2.8 ^a [0.43 – 5.8]	1.7 ^a [0.095 – 7.8]	1.9 ^a [0.012 – 8.4]
Bacteroidetes	Bacteroidales Unclass.	Unclass.	4.7 ^a [0.49 – 6.9]	0.11 ^b [0.0043 – 0.87]	0.19 ^b [0.0023 – 14.0]
Verrucomicrobia	Verrucomicrobiaceae	<i>Akkermansia</i>	0.061 ^a [0.0026 – 1.8]	0.34 ^{ab} [0.0085 – 31.8]	0.76 ^b [0.00070 – 46.3]
Spirochaetes	Spirochaetaceae	<i>Treponema</i>	3.4 ^a [1.1 – 7.9]	0.024 ^b [0.0064 – 1.1]	0.091 ^b [0.00070 – 2.9]
Firmicutes	Lactobacillaceae	<i>Lactobacillus</i>	0.069 ^a [0.0034 – 1.1]	0.60 ^a [0.0068 – 33.2]	0.21 ^a [0.0051 – 33.3]
Proteobacteria	Moraxellaceae	<i>Acinetobacter</i>	0.016 ^a [0.0006 – 8.8]	0.0071 ^a [0 – 27.9]	0.020 ^a [0 – 40.3]
Actinobacteria	Coriobacteriaceae	Unclass.	0.45 ^a [0.040 – 4.2]	1.1 ^a [0.025 – 9.5]	1.4 ^a [0.0014 – 17.4]
Verrucomicrobia	Verrucomicrobiaceae	Unclass.	0.17 ^a [0.0079 – 3.0]	0.028 ^a [0.0011 – 18.4]	0.22 ^a [0.0011 – 23.6]
Proteobacteria	Enterobacteriaceae	Unclass.	0.0051 ^a [0 – 0.14]	0.17 ^b [0.0082 – 18.8]	0.091 ^b [0 – 38.7]
Firmicutes	Eubacteriaceae	<i>Mogibacterium</i>	0.21 ^a [0.020 – 2.0]	0.58 ^{ab} [0.0085 – 12.0]	1.5 ^b [0.0022 – 14.6]
Firmicutes	Lachnospiraceae	<i>Blautia</i>	0.16 ^a [0.013 – 2.2]	0.72 ^a [0.014 – 46.0]	0.50 ^a [0.0028 – 5.4]

Unclass, Unclassified taxonomy from the from the earlier identified taxonomic group. P-values obtained using Steel Dwass test for multiple comparisons and corrected with Benjamini and Hochberg's false discovery rate analysis (FDR). P-values with a FDR adjustment of < .05 were considered significant. Superscript letters indicate withing row comparisons that are significantly different.