

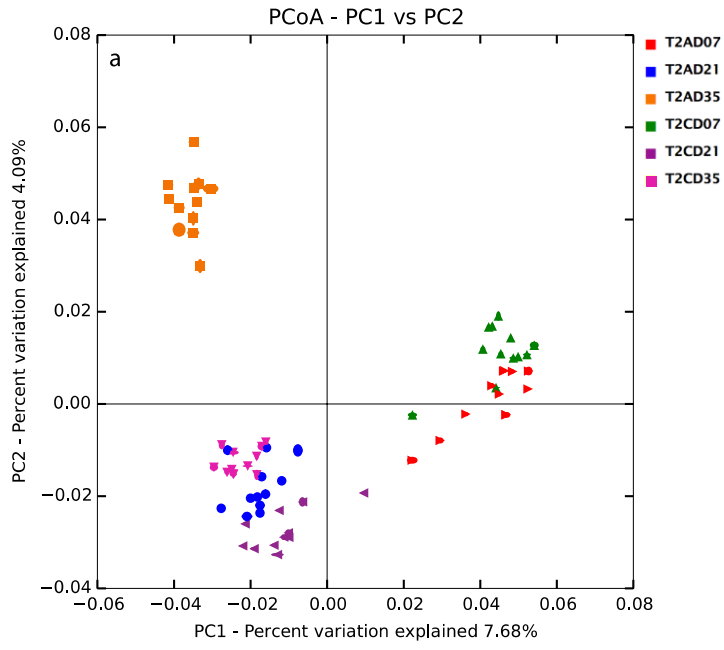
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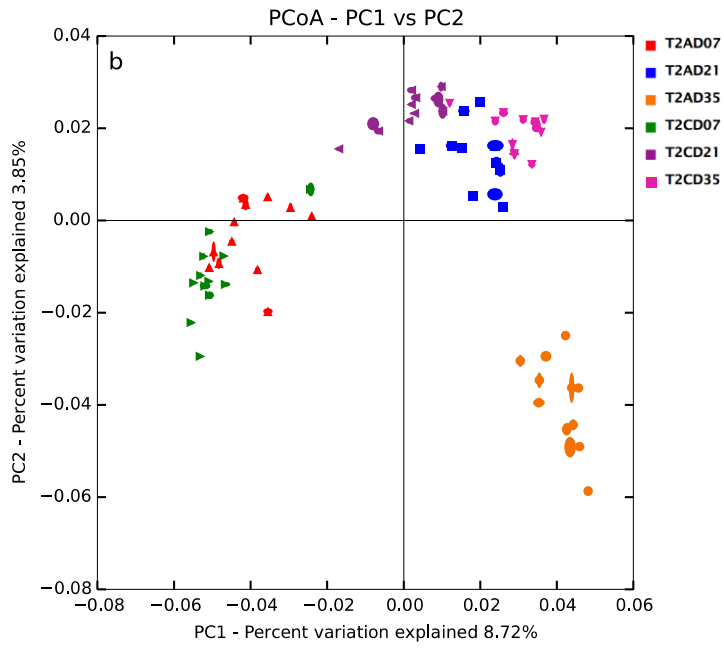
Figure S1. Megan 4 Analysis. Pylogenetic diveristy index average over 12 samples per

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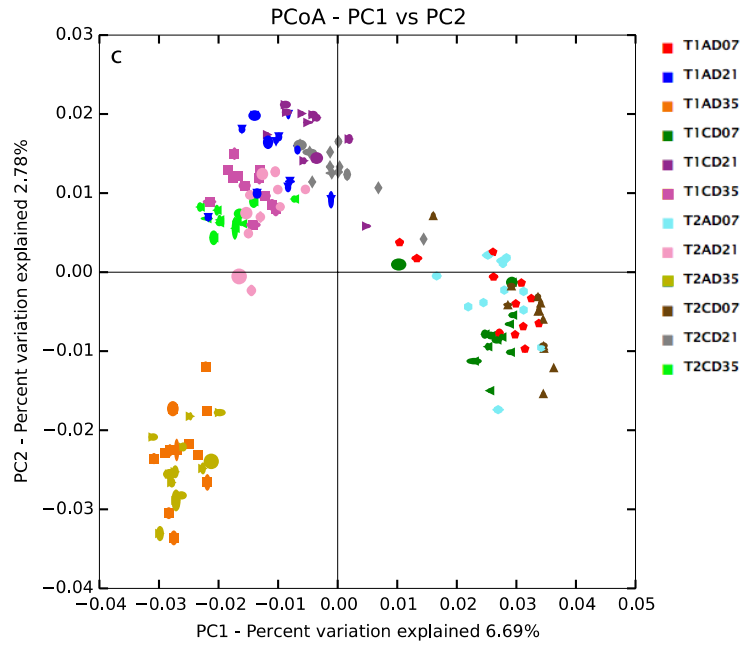
timepoint and treatment.



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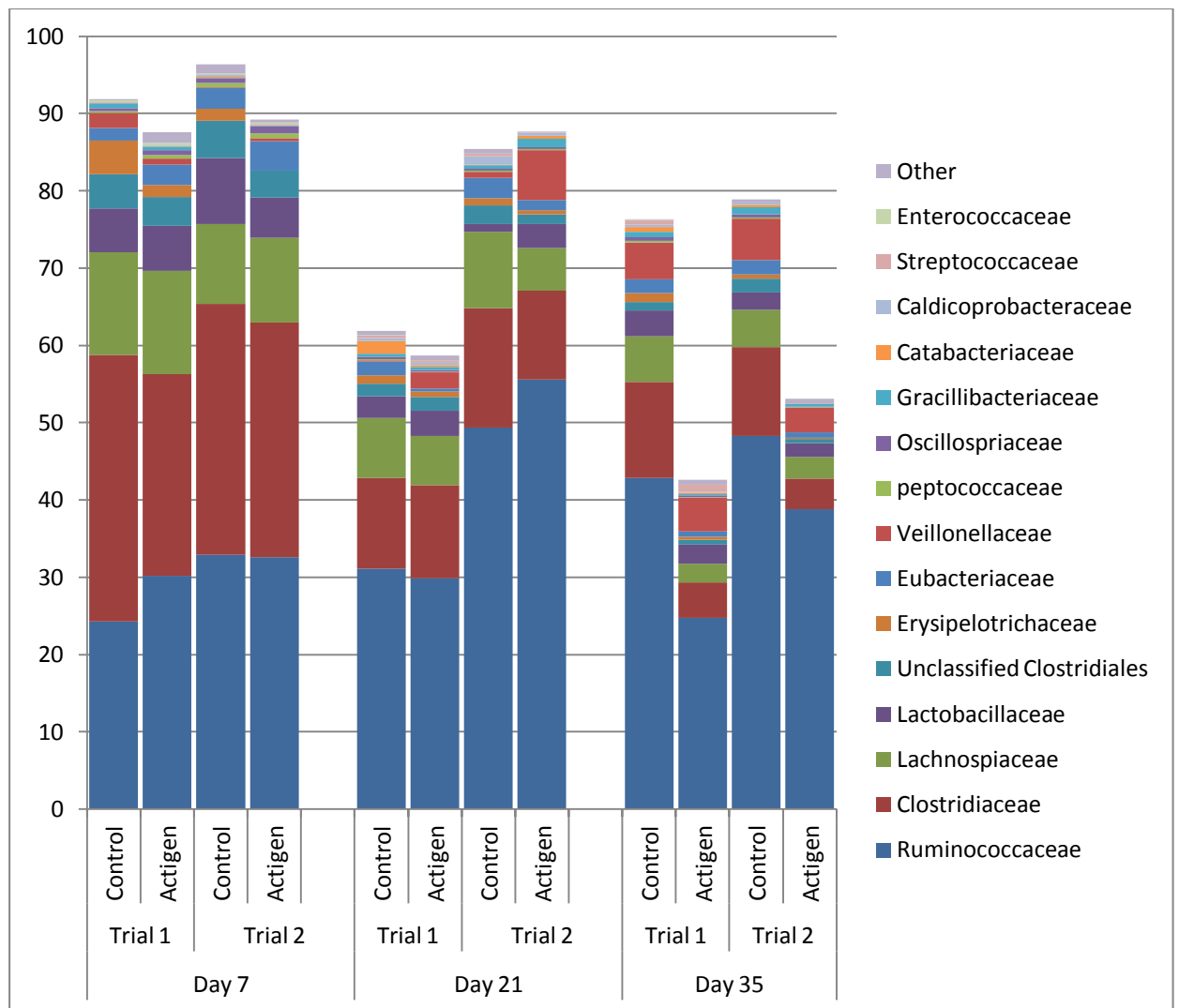
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7 **Figure S2 (a-c).** PCA analysis (a= Trial 1, b=Trial 2, c=Trial 1 and Trial 2 combined)

8 was performed on pairwise distance estimates obtained from Unweighted Unifrac

9 analysis to assess for differences between Timepoints (D07 = day 7, D21 = day 21 and

10 D35 = day 35 posthatch) and Treatment (A = Actigen, C = Control).



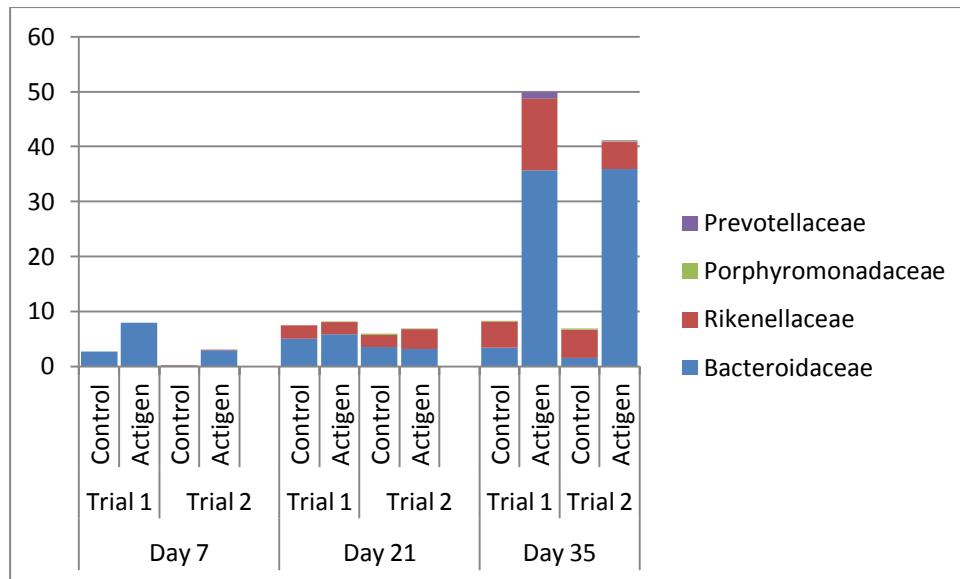
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Figure S3. Bacterial Family level distribution (percentage) within Firmicutes phylum at each timepoint in control and supplemented groups for both Trial 1 and Trial 2, (n=12 for each treatment per timepoint).



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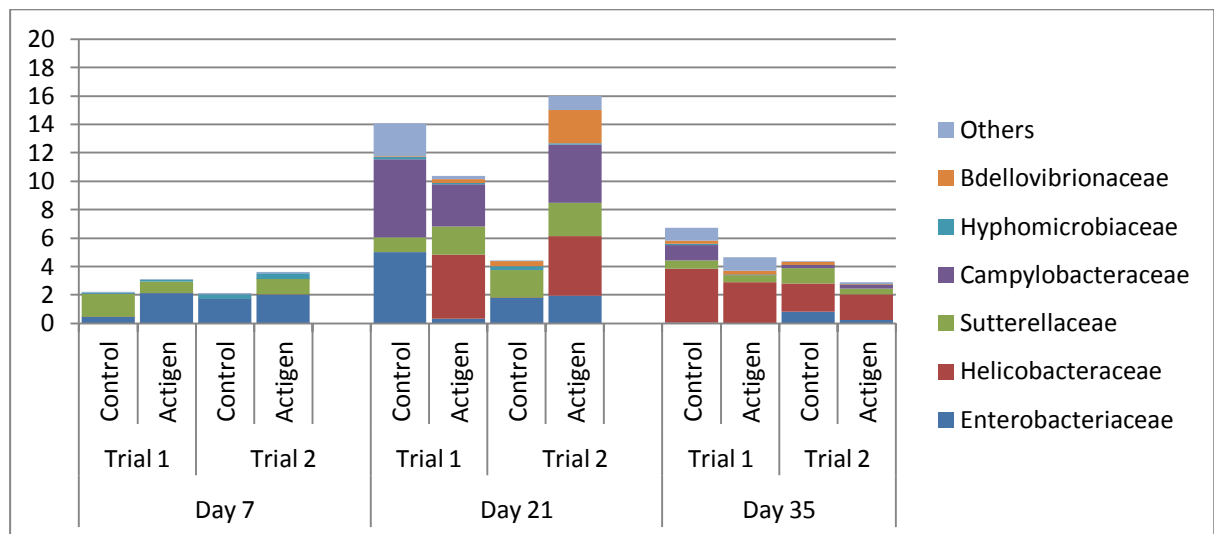
Figure S4. Bacterial Family level distribution (percentage) within Bacteroidetes phylum

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at each timepoint in control and supplemented groups for both Trial 1 and Trial 2, (n=12

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for each treatment per timepoint).



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Figure S5. Bacterial Family level distribution(percentage) within Proteobacteria phylum

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at each timepoint in control and supplemented groups for both Trial 1 and Trial 2, (n=12

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for each treatment per timepoint).

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