

*Supplementary Materials*

**Table S1.** Bacterial isolates used for inoculation of calves with *Campylobacter jejuni* (oral) and *Mannheimia haemolytica* (trans-tracheal) in the current study.

Isolate/strain	Source	Origin	Isolation date	Reference
<i>C. jejuni</i> IA-6-FC-30	Feces of healthy cattle	Iowa	2013	[67]
<i>C. jejuni</i> MO-2-FC-25	Feces of healthy cattle	Missouri	2013	[67]
<i>M. haemolytica</i> VDL4004	Pneumonic lung of calf	Iowa	2018	This study