## **Accepted Manuscript**

The effects of feeding monensin on rumen microbial communities and methanogenesis in bred heifers fed in a drylot

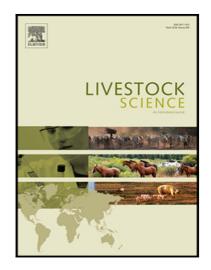
E.A. Melchior, K.E. Hales, A.K. Lindholm-Perry, H.C. Freetly, J.E. Wells, C.N. Hemphill, T.A. Wickersham, J.E. Sawyer, P.R. Myer

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#### ACCEPTED MANUSCRIPT

### Highlights

- In-vivo methane and CO<sub>2</sub> were not affected by monensin supplementation
- The abundance of several OTUs was reduced with monensin supplementation
- Monensin supplementation did not suppress classical rumen Gram-positive populations
- Shifts were observed within methanogens among days but not between treatments
- Monensin use in bred heifers may be ineffective at reducing long-term CH<sub>4</sub> emissions

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