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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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Highlights

- In-vivo methane and CO₂ 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 CH₄ emissions

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