

## Accepted Manuscript

Title: A small scale rumen incubation system to screen chemical libraries for potential methane inhibitors

Authors: Stefan Muetzel, Ron S. Ronimus, Kristy Lunn, Maik Kindermann, Stephane Duval, Michael Tavendale



PII: S0377-8401(17)31418-9  
DOI: <https://doi.org/10.1016/j.anifeedsci.2018.08.001>  
Reference: ANIFEE 14046

To appear in: *Animal Feed Science and Technology*

Received date: 21-11-2017  
Revised date: 1-8-2018  
Accepted date: 3-8-2018

Please cite this article as: Muetzel S, Ronimus RS, Lunn K, Kindermann M, Duval S, Tavendale M, A small scale rumen incubation system to screen chemical libraries for potential methane inhibitors, *Animal Feed Science and Technology* (2018), <https://doi.org/10.1016/j.anifeedsci.2018.08.001>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Short communication: A small scale rumen incubation system to screen chemical libraries for potential methane inhibitors.**

Stefan Muetzel\*<sup>a</sup>, Ron S. Ronimus<sup>a</sup>, Kristy Lunn<sup>a</sup>, Maik Kindermann<sup>b</sup>, Stephane Duval<sup>c</sup> and Michael Tavendale<sup>a</sup>

<sup>a</sup>AgResearch, Grasslands, Tennent Drive, Palmerston North, New Zealand

<sup>b</sup>Animal Nutrition and Health, DSM Nutritional Products, Basel CH-4002, Switzerland

<sup>c</sup>Research Centre for Animal Nutrition and Health, DSM Nutritional Products France, Saint Louis Cedex 68305, France

\*Corresponding author

Stefan.Muetzel@agresearch.co.nz

AgResearch Limited

Grasslands Research Centre

Tennent Drive, Private Bag 11008, Palmerston North 4442, New Zealand

Highlights

- A new 96-well based rumen in vitro screening tool has been developed
- Total gas production, methane and hydrogen can be determined in a single measurement
- The system allows high throughput testing of anti-methanogen compounds

Declaration of interest:

None

Download English Version:

<https://daneshyari.com/en/article/8490890>

Download Persian Version:

<https://daneshyari.com/article/8490890>

[Daneshyari.com](https://daneshyari.com)