

Media Release

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Rumin8 hits 80% methane yield reduction in products suitable for grazing cattle

A University of New England controlled cattle study has found the methane yield was slashed by 81 per cent when trial cattle had access to water troughs dosed with Rumin8's methane reducing livestock supplements, indicating a new tool is emerging to help cattle farmers who rely on grazing production systems to lower their methane emissions.

Delivery of Rumin8's water-based formulation to cattle through water troughs opens up opportunities to reduce methane emissions from cattle in either remote, rangeland operations, or those with few animal handling touch points, such as pasture/grass-based cattle production systems.

At any one time 96% of the cattle population in Australia, the United States, Brazil and New Zealand graze grass. There are currently no methane-reducing additives commercially available for these cattle.


The controlled cattle study was run by Australian climate technology company Rumin8 in conjunction with research partner, the University of New England (UNE), to test the efficacy of two different formulations of Rumin8's proprietary methane inhibiting product against a control group. One was administered a water-based formulation via water troughs suitable for pasture-fed cattle and the other was an oil-based formulation incorporated into a feedlot ration.

The feedlot ration, incorporating Rumin8's methane reducing oil formulation, achieved a 95 per cent reduction in methane yield.

Rumin8 Chief Executive Officer David Messina said: "We are very pleased with these results as they build on the significant trial data set that Rumin8 has generated with a range of formulations in a variety of production systems over the past three years.

"With so many cattle grazing grass around the world, the 81 per cent methane yield reduction achieved through water-based delivery was truly exciting, both in terms of addressable market and the positive climate impact this has the potential to create.

"Our collaboration with UNE also underpins our commitment to research excellence, as we work towards decarbonizing the global cattle population and delivering effective and practical solutions for producers across a diverse range of production systems. We have now concluded more than 20 trials across the globe to demonstrate efficacy and safety, and to refine our formulations."



Rumin8 Pty Ltd
ABN 95 650 934
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Australia
Suite 1, Level 2
66 Kings Park Road
West Perth WA 6005

United States
150 North Radnor Chester Road
Wayne PA 19087

Email: hello@rumin8.com
Web: rumin8.com

As a result of the successful outcomes from these studies, Rumin8 has now entered into a longer-term agreement with UNE to expand the number and frequency of studies to be conducted at the University, and to accelerate the development and optimization of products for commercial use.

In parallel, Rumin8 continues to progress its registration development programs in New Zealand, Brazil and the United States, with ongoing engagements with regulators in each country.

The methane *yield* measurement is a preferred measurement of methane reduction as it quantifies the total amount of methane produced divided by the total amount of feed consumed (dry matter intake or DMI) to generate a more accurate assessment of the effect of the additive. Absolute methane measurements can be misleading because methane reductions can be achieved by reducing feed consumption, which is highly undesirable in meat and milk producing animals.

Media:

Cameron Morse

+61 433 886 871

cameron.morse@fticonsulting.com

About Rumin8

Rumin8 is an agriculture-focused climate tech company, using pharmaceutical technology to create affordable feed and water supplements that reduce methane emissions from livestock. Our patented process delivers our nature inspired pharmaceutical ingredient to interrupt methane production, as well as boost animal performance. We're perfecting various formulations for diverse livestock feeding systems, including grass-fed cattle, aiming to decarbonize 100 million cattle by 2030.

To learn more please visit: <http://www.rumin8.com>

