Solving Livestock Methane Emissions

Press Release

11 May 2026

Rumin8 granule proves effective in UNE feedlot trial

A Rumin8 granular methane reducing feed additive has reduced methane emissions by 81 percent in an Australian trial designed to test the product under feedlot conditions.

Conducted at the University of New England, the study compared methane emissions from a group of cattle consuming Rumin8's granule as part of a finisher-based total mixed ration (TMR) against a control group of steers fed the TMR only.

The 81 percent reduction in methane emissions were consistent with a previous, similar trial undertaken at the University of Florida, where methane reductions of 83-86% were achieved when Rumin8's granule was incorporated into the TMR.

Rumin8's granule-based products were developed to address practical limitations associated with its earlier oil-based formulations by offering greater flexibility in product handling and delivery in feedlots.

"This study confirms the strong anti-methanogenic potential of the Rumin8 solid format when mixed directly into a feedlot ration. The findings support the use of Rumin8 Granule IVP formulations as a practical methane mitigation option in feedlot and other systems," said Rumin8 CEO David Messina.

"Importantly, the results are consistent with another trial conducted in the USA. Rumin8 has a collection of data establishing our granule-based product's efficacy in significantly reducing the creation of methane inside the rumen of livestock. That means there's no need to offset and/or sequester methane because the production is prevented."

A two-period crossover design was used in the study, involving ten steers allocated to either a control or treatment group (n = 5 per group), such that all animals received both the control and IVP treatments by the end of the study. Steers were fed a medium–high grain finisher diet *ad libitum*, with the Rumin8's granule product mixed directly into the total mixed ration of treated animals. Methane emissions were measured using respiration chambers on Days 7 and 14 of each experimental period, separated by a 7-day washout phase.

Final conclusions will be determined following completion of full data analysis.

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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 a nature inspired and derived pharmaceutical ingredients 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