

Methane reduction with Gain Feeds

Methane production is a natural process of rumen fermentation which results in the loss of 3 – 8 % of feed gross energy. Therefore, any supplement mitigating the ruminants methane production is expected to increase energy retention and thus productivity.

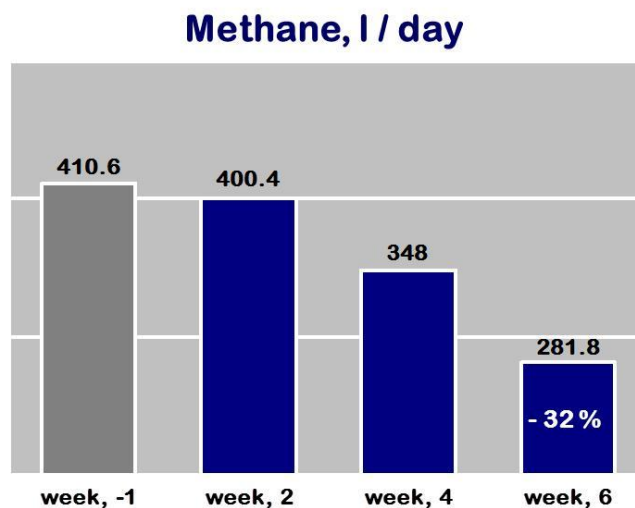
The enhanced GAIN range contains AGOLIN RUMINANT, a powerful and unique rumen modifier improving both dietary energy and protein utilisation. This product was recently tested in the National Research Institute of France (INRA). The objective of the trial was to confirm its effect on the reduction of enteric methane production in cattle. This parameter was measured by a method called “the tracer gas technique” on lactating Holstein cows



Photo Cécile Martin, INRA Clermont-Ferrand/Theirx

Measures were taken during the week before and at week 2, 4 and 6 after the supplementation of Gains exclusive product.

The results confirm that methane emissions decreased throughout the trial. During the **last** week, methane production was reduced significantly by over 30 %!



FEEDS

Reduced methane production **gives rise to** improved feed efficiency (and profitability) and lower green house gas emissions.

The GAIN team will keep you informed about this innovative and challenging issue.

Optional / ideas:

- AGOLIN RUMINANT is unique to GAIN FEEDS since two years. Recent trials in the UK on large dairy herds fed with grass silage based TMR have shown good feed intake and positive effects on milk yield and feed efficiency.

Average performance of 3 field trials

	Control	AGOLIN	% Change
Dry matter intake, kg/head/day	20.3	21.0	+ 3.4
Milk yield, kg/head/day	32.1	34.2	+ 6.5
Feed efficiency, milk yield/dmi	1.58	1.63	+ 3.2

- Methane is also a potent greenhouse gas that is produced in large amounts in the gastrointestinal tract of ruminants. The modulation of enteric methane production and, consequently the reduction of the environmental footprint is an area of active research and a challenge for the industry.

- AGOLIN RUMINANT did show in research trials methane mitigating effects of at least 15 – 20 %. By adding this supplement to the ration of all 2'000'000 dairy cows in Ireland a decrease of 46'800 tons of methane or about **1'000'000 ton** of CO2 equivalent.