Unique benefits of Progut® Rumen:

- Patented hydrolyzed yeast
- Stable during storage and pelleting
- Acts as a rumen stimulant

For cows:
- Active for cows with different milk yields
- Scientifically proven milk yield increase
- Scientifically proven SCC reduction

For calves:
- Scientifically proven immune stimulation
- Scientifically proven to improve faecal + health scores

Recommended dosage rates:

<table>
<thead>
<tr>
<th>Category</th>
<th>Dosage Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dairy cows</td>
<td>10 g/day</td>
</tr>
<tr>
<td>2 weeks before calving and during the lactation</td>
<td></td>
</tr>
<tr>
<td>Beef cattle</td>
<td>1.5 g/100 kg/bw</td>
</tr>
<tr>
<td>Calves</td>
<td>2 g/day</td>
</tr>
<tr>
<td>In starter feed or milk replacer</td>
<td></td>
</tr>
<tr>
<td>Sheep and goats</td>
<td>1 g/day</td>
</tr>
</tbody>
</table>

Nature creates – we refine

At Suomen Rehu, we combine large scale animal feed production with dynamic and highly innovative research and development. Coming from a country so far north as Finland, it has always been the case that we must add value and be innovative to survive. New product innovations and patented feeding solutions are the forces that drive us forward.

Progut® Rumen is a unique new generation yeast which, in trials, has been seen to significantly increase milk yield in cows while at the same time reducing the somatic cell score. Trials with calves saw an improvement in the faecal score, health score and a stimulation at the immune system.

The harsh winter climate covers the country in a blanket of snow and ice. Temperatures fall to –25 degrees c, the seas freeze over and the beautiful Aurora Borealis lights up the sky. We are inspired by nature.
What is Progut® Rumen?

Progut® Rumen is a ‘3 in 1’ yeast-based feed ingredient. Whole yeast cells are extracted from the brewing industry and processed in a way that enhances all the nutritional and health benefits of both the yeast cell wall and cell contents. It is rich in Mannoproteins, Beta-glucans, nucleotides and peptides. It is stable during storage and pelleting.

What makes it unique?

What makes Progut® Rumen unique is the hydrolysis process we use to break down the yeast cell. Yeast cells are first deactivated by heat treatment before being hydrolysed to release more effective soluble, bioactive particles. This is a controlled process which results in a more consistent product with consistent results. Suomen Rehu has patented the use of this yeast hydrolysate in animal feeding. (EP1387620)

9 times more soluble, bioactive particles.

Recently published trial work for Progut® Rumen

1. Dairy Trial 2013


Significant findings:

A. Progut® Rumen increased milk yield for all cows

The trial was carried out on 248 Holstein-Friesian cows with an average milk production of 9800 kg. Before the experiment the control and treatment groups were balanced for parity, DIM, BCS, pre-experimental milk yield and composition. Cows in both groups were fed similar diets of fresh-grass, grass silage, maize silage and concentrates.

Relative amount of soluble poly and oligosaccharides

After hydrolysis, Progut® Rumen contains 9 times more soluble poly and oligosaccharides than the deactivated yeast raw material before hydrolysis. © Glykos Ltd Finland

B. Progut Rumen reduced somatic cell count for the entire treated group

The reduction in SCC, as measured by somatic cell score (log10(SCC)), was significant for the entire group (P<0.01). The greatest reduction came from the higher yielding cows. The SCC figures for the entire group of cows showed that the treated group had a SCC of 62,000 cells less than the untreated group (184,990 cells vs. 32,370 cells).

Progut® Rumen can reduce SCC as part of your milk quality program.

2. Calf trial – immune response


A. Calves fed Progut® Rumen produced antigen specific IgA more efficiently after vaccine challenge.

B. Calves fed Progut® Rumen displayed a significantly better faecal score and health score (P<0.05) than untreated calves in this trial.

Progut® Rumen can be fed in the starter feed or through the milk replacer.