

progres[®]

NATURALLY ACTIVE FORCE



naturally

1

2

active

force

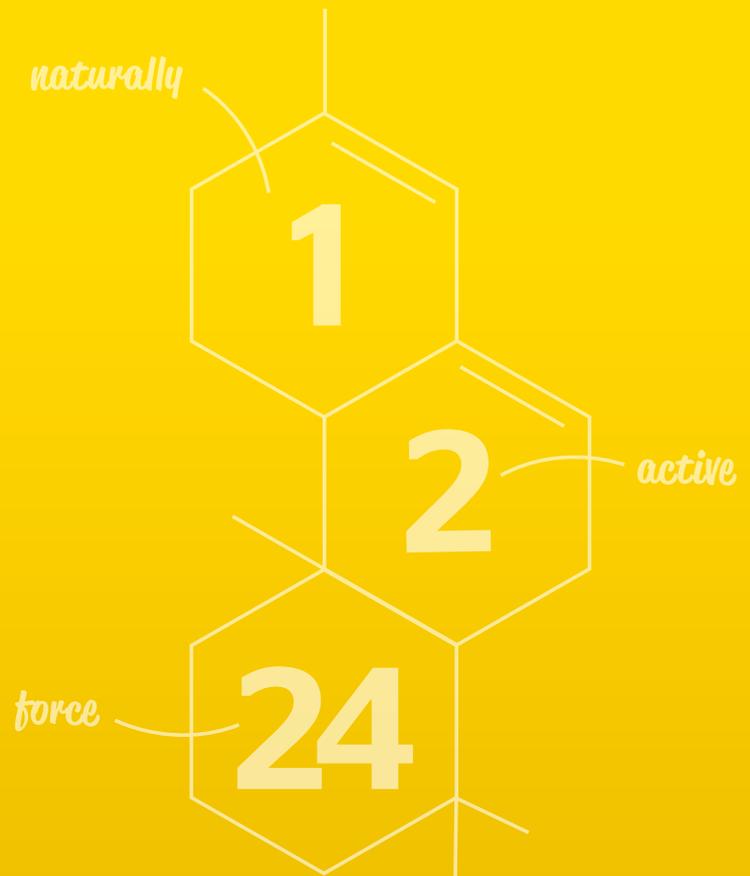
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What is Progres®?

Progres® is a new patented feed innovation aimed at supporting the productivity and health of animals, thus improving the sustainability of animal production worldwide.

Progres® is **the first commercially available feed ingredient containing naturally occurring free resin acids**, which has been shown to provide a range of benefits for farmed animals.



1 Naturally

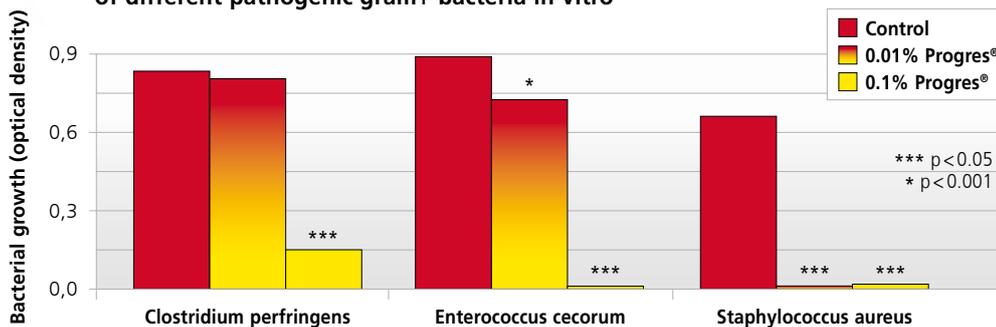
Progres® is based on rosin, the natural defense mechanism of coniferous trees against various pathogens. Rosin has been used in Finnish folk medicine for centuries to heal infected wounds.

Suomen Rehu is first to develop rosin compounds into a form that optimizes their use and efficacy in animal feeding. Progres® is produced from tall oil, a co-product of pulp production, using a specific refining process. Progres® is a mixture of tall oil fatty acids containing a defined quantity of free resin acids.

2 Active

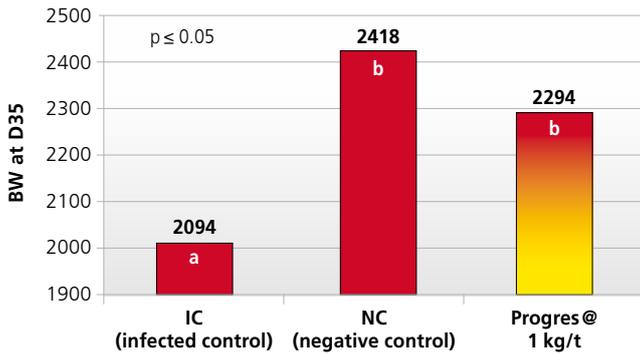
Progres®: In vitro trials.

Effect of Progres® on the growth of pure cultures of different pathogenic gram+ bacteria in vitro



In our *in-vitro* trials (Alimet-rics, 2014), Progres® inhibited the growth of a number of Gram-positive bacterial pathogens known to acutely or chronically affect the intestinal tract of chickens and turkeys.

Progres®: Necrotic Enteritis (NE) challenge trial

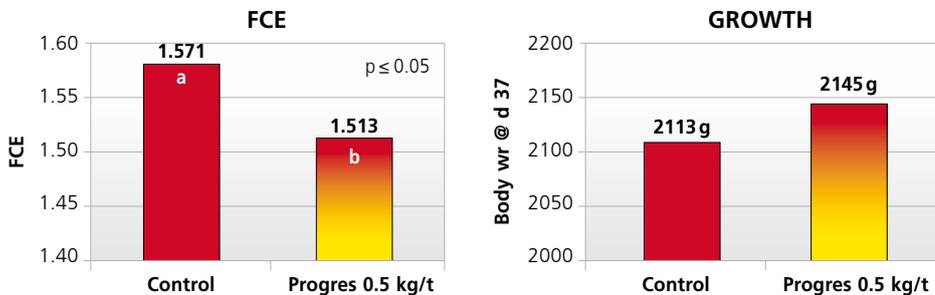


In a Necrotic Enteritis challenge trial carried out at Schothorst Research station, Progres® significantly increased the body weight of challenged birds at day 35. E. van Eerden et AL, 2015.

Note: This challenge trial was carried out without coccidiostats in the feed.

Progres®: Broiler performance trial

Private research farm UK 2014.



In a broiler performance trial carried out in good conditions Progres® improved significantly the FCE of broilers day 0–37.

Note: This performance trial was carried out with coccidiostats in the feed.

Use of Progres®

Progres® is available in liquid form. Suomen Rehu is also developing a dry version of the product.

The recommended inclusion rate of Progres® Liquid in commercial poultry feeds is 0.5 to 1 kg/t of feed.

Please contact the company's Research and Development staff to learn more.

Progres® helps you in making a step towards a more natural and a more sustainable production!

Positive reactions from customers using Progres® witness the strength of the innovation.

Visit our website www.suomenrehu.com

24 Force

Consistency. The bioactive components of Progres® are known, measurable and stable. Their quantity can be guaranteed. They are presented in a form and a concentration which has no negative implications for the animal, humans or the environment. Progres® gives consistent results every day 24/7.

Power. Progres® has an energy density similar to oils of vegetable origin such as soya oil. This can be taken into account when adding Progres® into formulations.

Achievement of a long development process. Progres® is a result of the Suomen Rehu's firm commitment to meet customers' needs while responding to societal challenges. A wealth of laboratory as well as *in-vivo* studies was carried out to test the product and achieve the best efficacy possible.

Perspectives

Suomen Rehu is committed to extend the range of Progres® applications in close co-operation with its customers and partners. Soon, we hope to be able to launch product applications for young animals such as piglets, calves, lambs and kids as well as for adult animals of these species. Our goal is that Progres® will contribute to improve resource efficiency, better animal health and welfare and a reduction in the use of synthetic antimicrobials.





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.

Progres® is a unique product for feeding to broiler chickens and turkeys throughout their meat production life. A revolutionary feed invention, which bears sizeable market potential worldwide with a number of promising applications going beyond poultry feeds. Discover its forces.

We are inspired by nature.

