

Evonik to introduce first own developed probiotic (DFM) – GutCare® PY1

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Essen. Evonik will launch its first own developed probiotic (DFM, direct fed microbial) product GutCare® PY1 at the International Production & Processing Expo (IPPE) 2017 in Atlanta (USA). Over the coming years, Evonik, specialist in feed amino acids, also intends to assume a leading role in the field of sustainable and antibiotic-free livestock management.

Contact person

Dr. Jürgen Krauter

Head of Communications
Nutrition & Care
Phone +49 6181 59-6847
Fax +49 6181 59-76847
juergen.krauter@evonik.com

GutCare® PY1 has a positive effect on the healthy balance of bacteria populations in the chicken gut especially under stressful conditions. “The product can be part of a set of alternative solutions to reduce the use of antibiotic growth promoters. Thus it can contribute to a healthy and balanced nutrition of livestock,” says Dr. Emmanuel Auer, head of the Animal Nutrition business line at Evonik.

Contact person specialized press

Michael Giffels

Head of Communications
Animal Nutrition
Phone +49 6181 59-3763
michael.giffels@evonik.com

For the development of GutCare® PY1, a multi-parameter selection process was established to screen more than 500 strains of the bacterial type *Bacillus subtilis* for probiotic properties.

Different scientific *in-vitro* as well as *in-vivo* studies demonstrated the ability of *Bacillus subtilis* DSM 32315 to modify the gut microbiota to inhibit the conditions that encourage different necrotic enteritis outbreak isolates.

This illness, which is commonly associated with certain pathogenic bacteria of the *Clostridium perfringens* type, causes losses of billions of US dollars to the global poultry industry every year.

Evonik Nutrition & Care GmbH

Rellinghauser Straße 1-11
45128 Essen
Phone +49 201 177-01
Fax +49 201 177-3475
Germany

www.evonik.com

The product will initially be introduced in the U.S. market, and other countries will follow. Since the acquisition of the probiotic business of the Spanish company NOREL S. A. in the summer of 2016, Evonik has two probiotics in its portfolio: Ecobiol® (*Bacillus amyloliquefaciens* CECT 5940) for poultry and Fecinor® (*Enterococcus faecium* CECT 4515) for piglets. “Our own developed probiotic product GutCare® PY1 ideally complements our product portfolio and expands our options to serve our

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customers worldwide,” states Peter Freisler, head of Gut Health Solutions at Evonik.

In addition to expanding its product portfolio, Evonik is developing a unique chicken gut simulation model in order to study the mechanisms of action of probiotics in animal nutrition. “From our perspective, the potential of probiotics for sustainable animal production is far from being exploited. That’s why we want to understand in detail how they work within the gut” explains Stefan Pelzer, head of innovation area Gut Health & Diagnostics.

Evonik’s Animal Nutrition business line has over sixty years of experience in the manufacture of essential amino acids and provides solutions for efficient and sustainable animal nutrition to customers in over one hundred countries. Evonik wants to make an even greater contribution to the efficiency and sustainability of animal feed by complementing its portfolio with innovative feed additives beyond amino acids in order to create additional value for its customers. Evonik’s products and services in the area of animal nutrition play a key role worldwide in the production of healthy and affordable food, while preserving natural resources and reducing the ecological footprint.

Company information

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals, operating in the Nutrition & Care, Resource Efficiency and Performance Materials segments. The company benefits from its innovative prowess and integrated technology platforms. In 2015 more than 33,500 employees generated sales of around €13.5 billion and an operating profit (adjusted EBITDA) of about €2.47 billion.

About Nutrition & Care

The Nutrition & Care segment is led by Evonik Nutrition & Care GmbH and contributes to fulfilling basic human needs. That includes applications for everyday consumer goods as well as animal nutrition and health care. This segment employed about 7,000 employees, and generated sales of around €4.9 billion in 2015.

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