

DSM Press Release

DSM Nutritional Products, Global Communications
P.O. Box 2676, 4002 Basel, Switzerland
Telephone +41 (0)61 815 83 54, Fax +41 (0)61 815 88 90
Internet: www.dsmnutritionalproducts.com



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DSM: VevoVital® approved for reduction of ammonia emissions in the Netherlands

The Dutch Government has approved the use of VevoVital® in pig feed to reduce ammonia emission in certain types of pig farms in the Netherlands.

First launched in Europe in 2003, VevoVital® is a zootechnical feed additive from DSM used in piglets and fattening pigs to reduce the pH of the urine, thus helping to cut the levels of ammonia associated with pig farming. The inclusion of 1% VevoVital® in the diet of pigs leads to an average of 16% reduction in ammonia emissions.

The Netherlands is home to some 11 million of Europe's approximately 190 million pigs and has Europe's most stringent laws regarding the management of ammonia emissions caused by pig farming. The Dutch legislation on ammonia emission applies to all farms, even those planning to cease operation. For farms equipped with old pig houses, the installation of air washers, which are commonly used to reduce ammonia emissions, can be prohibitively expensive and sometimes even technically impossible. Alternative approaches are therefore necessary to help farmers become compliant without being obliged to make large capital investments on the one hand or to reduce the size of their pig herds on the other. One such approach is the use of VevoVital® in the feed. It has been shown that by combining the use of VevoVital® with other low cost measures ammonia emissions can be reduced by as much as 42%. This is great news for both the farmers and the general public.

Dutch legislation on ammonia emissions, principally identifies housing techniques as the best method to reduce the levels of the ammonia associated with pig farming. As a feed additive, VevoVital® is not yet on the current RAV list (*Regelgeving Ammoniak en Veehouderij*), but its use has already been approved for farms that will cease operating before 1 January 2020. Today, VevoVital® is the first and only feed additive that has received such approval. DSM Nutritional Products has also submitted a dossier for VevoVital® as best available technique to reduce ammonia emission at the level of European authorities (IPPC - The European Integrated Pollution Prevention and Control bureau Seville). The evaluation processes are ongoing.

Christophe Paulus, Global Category Manager Eubiotics at DSM Nutritional Products, commented: "DSM's purpose is to create brighter lives for people today and generations to come. The potential of VevoVital® to reduce the environmental impact of pig farming is an example of this commitment. Tests with VevoVital® have also indicated that pigs given this diet show better feed performance by leading to an additional benefit of 1 to 3 Euro per pig, and have a lower frequency of gut health problems, which brings added benefits for farmers, animals and the environment alike."

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About DSM Nutritional Products

DSM Nutritional Products is the world's leading supplier of vitamins, carotenoids and other fine chemicals to the feed, food, pharmaceutical and personal care industries. The business has sales of over EUR 2 billion and a long tradition as a pioneer in the discovery of new products, new formulations and attractive applications for all industry segments. For further company information please visit www.dsmnutritionalproducts.com

About DSM - the Life Sciences and Materials Sciences Company

Royal DSM N.V. creates solutions that nourish, protect and improve performance. Its end markets include human and animal nutrition and health, personal care, pharmaceuticals, automotive, coatings and paint, electrical and electronics, life protection and housing. DSM manages its business with a focus on the triple bottom line of economic performance, environmental quality and social responsibility, which it pursues simultaneously and in parallel. DSM has annual net sales of about €8 billion and employs some 22,700 people worldwide. The company is headquartered in the Netherlands, with locations on five continents. DSM is listed on Euronext Amsterdam. More information: www.dsm.com.

For more information:

Charlotte Frederiksen
DSM Nutritional Products
Tel: +41 (0)61 815 83 54
E-mail: charlotte.frederiksen@dsm.com

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