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**The latest scientific research on MINTREX® presented by Novus International
at EuroTier 2018**

Brussels, Belgium (November 30th, 2018). Two seminars on the latest scientific research on MINTREX have been hosted by Novus at EuroTier. The aim was to reinforce the benefits of its exclusive bis-chelate molecule and to show the latest research of the “MINTREX Reduce and Replace” strategy. These seminars brought together experts from Europe to discuss the various challenges facing hyperprolific sows and high performing broiler breeders.

The swine seminar revealed the conclusions of a two-year field trial conducted in eighty-two Spanish commercial farms that compared three different sources of trace minerals. The results showed that sows fed with the MINTREX “Reduce and Replace strategy” had reduced mortality rates, lower culling rates and improved litter performance than sows fed with other trace minerals, both organic and inorganics. *“These results in the field are supported by a recent scientific study carried out by the North Carolina State University, in which the epigenetic and gene expression effects of MINTREX leading to better quality piglets have been demonstrated,”* said Mercedes Vazquez-Anon, Senior Director of Animal Nutrition and Facilities at Novus. Likewise, Peter Kappel Theil, Sr. Researcher, Department of Animal Science from the University in Aarhus, Denmark, talked about amino acids requirements in hyperprolific sows. He shared relevant information on how amino acid requirements during lactation are grossly determined by the milk yield, and explained how two component feeding (partly uncoupling of energy and amino acids) is a promising approach to minimize body mobilization and increase milk yield.

In the poultry seminar, Stanislaw Budnik, Sr. Technical Service Manager for Eastern EU for Novus, addressed the strength of MINTREX in breeder hen nutrition, in supporting their health and lifetime performance and its permanent effect on hatchability and chick quality, thus ensuring a good start of the broiler production cycle. *“It is possible to raise your breeder performance and progeny development to a higher level with less zinc, copper and manganese when offered in a higher bioavailable, more efficient form like MINTREX chelated trace minerals”* said Silvia Peris, Head of Technical Services in Europe and Middle East for Novus. Mr. Paul van Boekholt, Manager Global Marketing, Hubbard, continued explaining how consumer demand and animal welfare increasingly steer the broiler market and thus genetic development of parent stock, resulting in new premium products, broiler concepts at retail level.

These seminars are one of many Novus Forums that bring together multiple outlooks across the livestock and poultry industry for productive collaboration. More information about Novus’s, swine and poultry research and animal nutrition solutions can be found at www.novusint.com.

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About Novus International, Inc.

Novus International, Inc. is headquartered in metropolitan St. Louis, Missouri, USA and serves customers in over 100 countries around the world. A global leader in developing animal health and nutrition solutions, Novus International’s products include ALIMET® and MHA® feed supplements, ACTIVATE® nutritional feed acid, ACIDOMIX® preservative premixture, CIBENZA® enzyme feed additive, MINTREX®

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chelated trace minerals, SANTOQUIN® feed preservative, AGRADO® feed antioxidant and many other specialty ingredients. ESM Technologies, LLC, a joint venture between Novus Nutrition Brands, LLC, a subsidiary of Novus International, and ESM Holdings, LLC, focuses on human nutrition through specialty and functional ingredients for manufacturers of foods, beverages and dietary supplements (www.stratumnutrition.com). Novus is privately owned by Mitsui & Co. (USA), Inc. and Nippon Soda Co., Ltd. For more information, visit www.novusint.com. ©2018 Novus International, Inc. All rights reserved.