

Feeding a microencapsulated blend of organic acids and natural identical compounds to weaning pigs improved growth performance and intestinal balance

E. Grilli, M.R. Messina, M. Tedeschi, A. Piva

(2009) XI Interantional Symposium of Digestive Physiology of Pigs. 20th-22nd May, Montbrió del Camp, Costa Daurada, Spain

One-hundred and seventy weaning piglets were divided in two groups, and housed in 34 pens (17 replicates, 5 pigs each). Piglets received a basal diet with or without (control diet, CTR) the addition of a microencapsulated blend of organic acids and natural identical compounds (AviPlus®, EPI391155B1, Vetagro Spa, Italy) at 3 kg/ton. Piglets were weighted on day 0, 14, and 41 since the study began. Average daily gain and feed conversion rate were calculated between 0-14d, 5-41d, and 0-41d. On d41, 8 animals per group were slaughtered and intestinal contents were collected to perform chemical and microbiological analyses. Throughout the 0-41d period, AviPlus® group animals tended to have higher feed intake (+4.6%; $P=0.08$), higher average daily gain (+8%; $P<0.01$), and final body weight (+6.5%, $P<0.01$). Tyramine was higher in AviPlus® group in cecum and colon, and spermidine and spermine resulted significantly lower in the stomach when compared to CTR. VFA were affected by AviPlus® all across the GI tract. Animals fed with AviPlus® had better growth performance, and a different metabolic intestinal pattern, due to the action of the released organic acids and natural identical compounds on microflora metabolism, being both polyamines and VFA the end products of microbial fermentation.

HEADQUARTERS:

Vetagro S.p.A.
Via Porro 2 42124 Reggio Emilia - Italy
info@vetagro.com
infowesteu@vetagro.com
Tel: +39 0522 186 1500
Fax: +39 0522 92 7025
www.vetagro.com

OTHER LOCATIONS:

Vetagro Eastern Europe Kft.
Váci utca 81 1056 Budapest - Hungary
infoeasteu@vetagro.com
Tel: +39 0522 186 1500
Fax: +39 0522 92 7025

Vetagro Yem Ticaret A.Ş.
Levent Mahallesi, Cömert Sokak, No: 1
Yapı Kredi Plaza C blok Kat:17 No:40-41
Ofis:16 34330 Beşiktaş - Istanbul
info@vetagro.com
Tel: +90 212 318 9059
Fax: +90 212 317 4701

Vetagro Inc.
230 South Clark Street, # 320,
Chicago, IL 60604 - USA
infousa@vetagro.com
Tel: +1 773 610 2087
Fax: +1 773 442 0131