



VevoVital[®]

Delivering superior,
sustainable pig performance

dsm-firmenich 

Introduction

VevoVitall® – solving major challenges in pig production

Pig producers face many challenges as they strive to produce finished animals cost-effectively while protecting the environment.

By including VevoVitall® in diets pig producers can:

- Improve daily liveweight gain and feed conversion
- Reduce ammonia production providing a better environment for staff and pigs
- Reduce the incidence of diarrhoea and medication

The result – healthier, more profitable pigs.

What is VevoVitall®?

VevoVitall® is an ultra-pure source of food grade benzoic acid. Fully traceable with low smell, low corrosion and low caking. VevoVitall® is an easy to handled organic acid and the only safe source of benzoic acid.

When added to pig diets it acts as a preservative reducing the activity of bacteria, yeasts and moulds. It also moderates the microflora in the gut resulting in more effective digestion and reduced digestive disorders.



Delivering big benefits

Including VevoVitall® is proven to help producers improve the economical and environmental sustainability of their businesses:

The Challenge	VevoVitall® effect
Poor growth rate in pigs	Improves daily weight gain by 5-15% in piglets
Poor feed conversion	Improves FCR in piglets by 2-5%
Higher feed costs	Reduces FCR in growers and fatteners by up to 5%
Low feed intakes	3-10% increase in piglet feed intakes
High incidence of scours and diarrhoea	Up to 90% reduction in diarrhoea
High number of veterinary treatments	Reduced level of medication required
High levels of ammonia in pig houses	Up to 35% reduction in ammonia emissions

Proven effects

The benefits of VevoVital[®] have been proven in extensive trials and studies.

Preservation effects

Benzoic acid is a long-established preservative in the feed industry. It is particularly effective against fungi and yeasts. Better feed preservation can help improve intakes and performance.

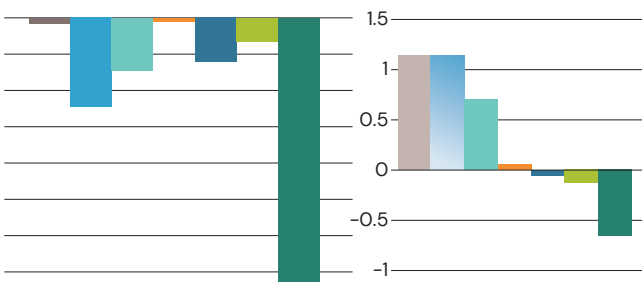
Benzoic acid helps reduce the numbers of the pathogenic bacteria responsible for digestive disorders. It is particularly effective in reducing the growth and development of *E. coli* and *Salmonella*.

A lower pathogenic load leads to healthier, faster growing pigs. A series of trials has shown a decrease in feed conversion when VevoVital[®] is used up to slaughter.

Bacteria	pH	MIC* (kg/t)
<i>Pseudomonas</i> spp	6.0	0.20 – 0.48
<i>Micrococcus</i> spp	5.5 – 5.6	0.05 – 0.10
<i>Pseudomonas</i> spp	5.2 – 5.6	0.20 – 0.40
<i>Escherichia coli</i>	5.2 – 5.6	0.05 – 0.12
<i>Salmonella</i> spp	5.1 – 6.5	0.50 – 1.00
Yeasts	pH	MIC* (kg/t)
Sporogen yeast	2.6 – 4.5	0.02 – 0.10
Non sporogen yeast	4.0 – 5.0	0.07 – 0.15
Moulds	pH	MIC* (kg/t)
<i>Rhizopus</i> spp	3.0 – 5.5	0.10 – 5.00
<i>Aspergillus</i> spp	3.0 – 5.0	0.02 – 0.30
<i>Penicillium</i> spp	2.6 – 6.0	0.03 – 10.0

*MIC Minimal inhibitory concentration; According to: Gould 1989 and Seon 2005

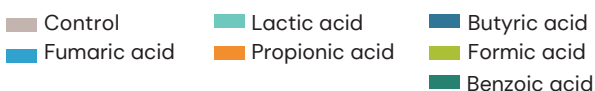
In vitro specific growth or inhibition of *E. coli* (/hour) as function of different concentrations of organic acids



Gastric juice (pH = 4.5)

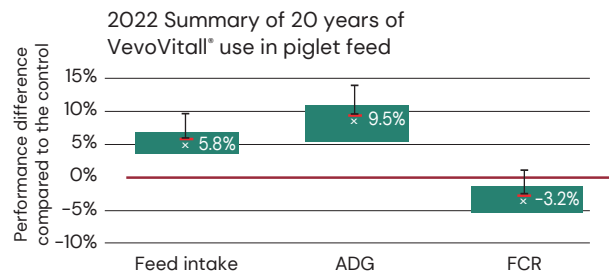
Adapted from Knarreborg et al 2002

Intestinal juice (pH = 5.5)



Better performance for piglet

A Summary of 20 years of Trials from several countries show a consistent improvement in feed intake +5.8%, ADG +9.5% and FCR -3.2% in piglets.

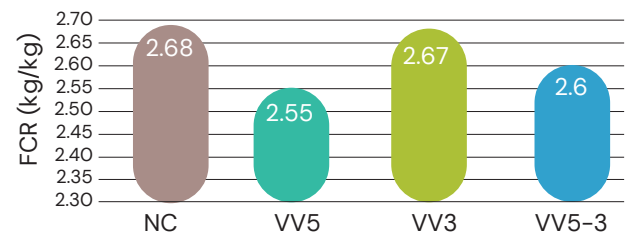


Trial design fatteners– Germany 2021

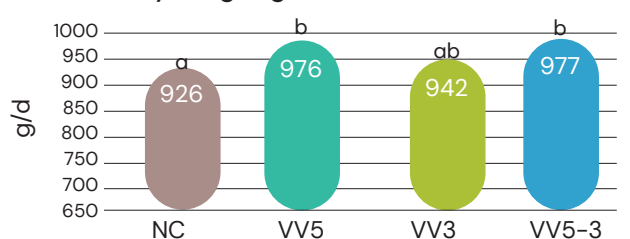
- 192 pigs
- genetics Pietrain x (LargeWhite x Landrace)
- 4 treatments, 48 pigs per treatment
- from 30 to 120 kg (slaughter)
- 3 feeding phases: 30 – 60 kg; 60 – 90 kg; 90kg – slaughter (120 kg)
- Individual feed intake via transponder feeding stations

Treatment	Description	Diet, dose of VevoVital [®]	
		Growing 25 – 60 kg	Finishing 60 – 120 kg
NC	Negative Control	-----	-----
VvV 5	VevoVital [®]	5 kg/t	5 kg/t
VvV 3	VevoVital [®]	3 kg/t	3 kg/t
VvV 5-3	VevoVital [®]	5 kg/t	3 kg/t

Feed Conversion Rate



Daily weight gain



VevoVitall® – delivers better returns

Supplementing diets VevoVitall® leads to healthier, better performing pigs and this means better returns and improved cash flow.

Recommended inclusion rates	
In growing pigs	5 kg VevoVitall®/ton complete feed
In finishing pigs	3 kg VevoVitall®/ton complete feed
Weaned piglets	5 kg VevoVitall®/ton complete feed
Sows	5 kg VevoVitall®/ton complete feed
Optimum ammonia control	10 kg/ton of complete feed



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