Nuklospray L73 shows comparable results as sweet whey

Trial at Schothorst Feed Research – Lelystad, the Netherlands

Conclusion

Nuklospray L73 can replace sweet whey powder. In the first two weeks after weaning, Nuklospray L73 shows comparable performance versus sweet whey. In the third and fourth week after weaning the average daily feed intake of Nuklospray L73 is significantly higher.

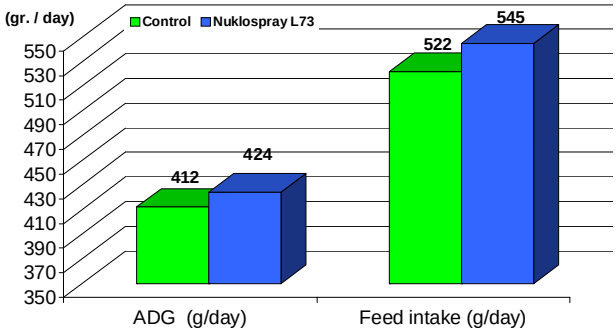
Trial

Schothorst Feed Research conducted a trial with weaned piglets to determine if Nuklospray L73 could replace sweet whey. Feeds were formulated wherein sweet whey was replaced by Nuklospray L73. Feed intake, growth performance and faecal consistency were registered and monitored during the first four weeks post weaning. This period was divided by two equal periods of two weeks.

Results

During the trial period, feed intake of Nuklospray L73 was 4% higher compared to the sweet whey group. Nuklospray L73 scored a 3% better average daily gain than sweet whey. At the end of the trial the body weight of the Nuklospray L73 group was 0.4 kg heavier, compared to the sweet whey group (20.7 vs. 20.3 kg).

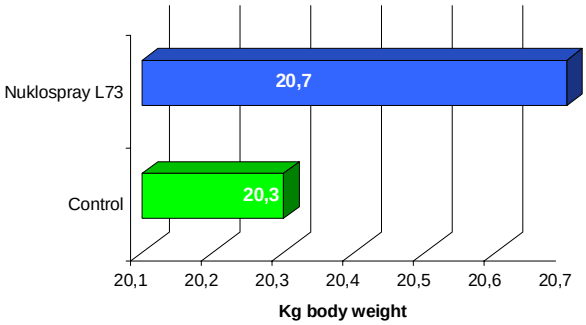
Performance first 4 weeks after weaning



Set-up of the trial

Piglets (Tempo, Great Yorkshire, Finnish landrace) were weaned at 28 days on average, showing an average weight of 8.5 kg. Sweet whey powder in the control diet was substituted by Nuklospray L73. The treatment consisted of 10 replicate pens, containing 6 piglets per pen. The trial period was divided into two periods of two weeks.

Body weight 4 weeks after weaning (kg)



Sloten B.V. • P.O. Box 474
7400 AL DEVENTER, the Netherlands
T: +31 570 639 999 • F: +31 570 626 001 • E: info@sloten.com
www.sloten.com

Table 2: Composition (%) of the phase 1 diets

COMPOSITION	Phase 1		Phase 2	
	Control	Nuklospray L73	Control	Nuklospray L73
Nuklospray L73 *	--	14.0	--	7.00
Sweet whey	11.1	--	5.63	--
Wheat	33.0	35.3	39.0	40.5
Barley	20.0	20.0	25.0	25.0
Soy bean meal (50)	7.5	7.1	10.0	10.0
Precooked corn	10.0	10.0	5.0	5.0
Soy Oil	2.8	2.55	0.2	0.2
Hamlet protein HP 310	3.9	--	2.5	--
Premix	4.3	4.3	4.2	4.2

* Nuklospray L73 contains 73 % lactose, 11% protein

Table 3: Calculated analysis (%) of the feeds

NUTRIENTS	Phase 1		Phase 2	
	Control	Nuklospray L73	Control	Nuklospray L73
Crude protein (%)	17.5	17.5	17.2	17.1
Crude fat (%)	5.9	5.9	5.3	5.3
Lactose (%)	8.1	8.0	4.1	4.0

Where the trial was done: Schothorst Feed Research (SFR)
SFR is located in Lelystad, the Netherlands. It is an independent research facility, both nationally and internationally acknowledged.

Sloten – more than milk
For more than 50 years Sloten has been developing, producing and selling complete feeds and feed ingredients based on milk and milk products, for the rearing of young animals.

The quality of the products is constantly being matched with the needs of these animals by Sloten's R&D department. The unique recipes, fat blends, as well as the sophisticated homogenization and spray-drying process owned by Sloten, are key factors in our product quality.

Spray-drying liquid mixtures of fat and milk products results in encapsulated fats with the perfect fat particle size for easy digestion and a long shelf life.