



Schothorst Feed Research

## T-cannulation piglets and growing finishing pigs

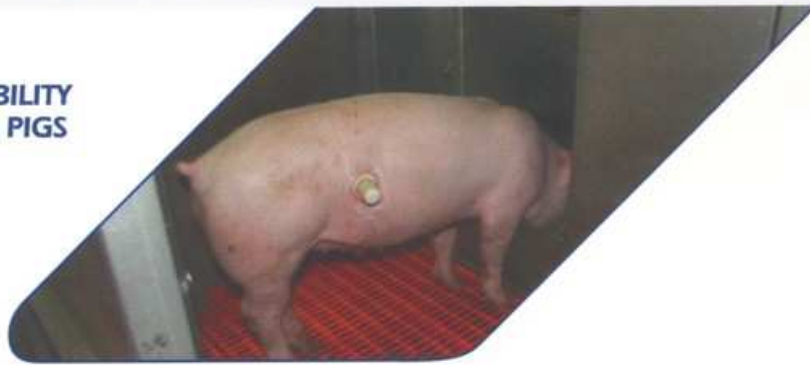
Statistical characteristics of the experiments	Piglets	Growing finishing pigs
Total number of animals	36	18
Number of treatments	2-6	2-6
Replicates per treatment	4-8	4-8
Standard Deviation (SD):		
- DC(ileal) dry matter	1.5	5.8
- DC(ileal) crude protein	3.3	5.4

### GENERAL INFORMATION

- The applied protocol for digestibility trials is based on the standard CVB protocol for digestibility studies in pigs.
- For determination of faecal digestibility, HCl insoluble ash (3.0% Diamol) respectively  $\text{Cr}_2\text{O}_3$  (0.3%) are used as markers.
- The experimental feeds are produced in a specialized production unit under GMP+ conditions. All experimental feeds are produced in one batch and stored. Feeds are stored cooled or deeply frozen depending on the time between feed production and end of experiment.



## SFR FACILITIES DIGESTIBILITY CAGES T-CANNULATED PIGS



### BRIEF DESCRIPTION PROTOCOL

T-cannulated pig(lets) are used for ileal and faecal digestibility experiments

- Pigs with initial body weight of 25 kg are provided with T-cannula and individually housed in cages (0.975 x 2.0 m) in a laboratory facility. A maximum of 18 pigs can be used.
- Actual collection period of faeces starts after an adaptation period of minimum two weeks in which experimental diets are fed.
- During the faecal collection period faeces samples are collected twice daily by grab-sampling (after rectal stimulation if necessary). This procedure is performed during three consecutive days.
- All samples are stored cool during the faeces collection period. After collection period, samples are homogenised, pooled per individual pig and freeze dried for further analysis.
- After faecal collection, ileal content is collected at two consecutive days during six hours per day. All samples are stored cool during the ileal collection period. After collection period, samples are homogenised, pooled per individual pig and freeze dried for further analysis.
- Throughout the weight range 25-100 kg a maximum of three faeces and ileal content collection rounds can be applied.
- Digestibility experiments in this facility can be extended easily with additional measurements e.g. challenge trials with pathogens or in-depth gut studies to investigate intestinal tissue morphology, passage rate, gut microflora etc.
- Study can be performed with weaned piglets as well.

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