

LAYING HENS



Facilities adapted to new welfare requirements Council Directive 1999/74/EC

- 84 cages of 0.45 x 0.63 x 1.21 m³ with 8-10 hens each.
- Up to 8 treatments x 10 replicates.



- Standard observations:
 - Egg quality: shell thickness, yolk colour (instrumental a*, b*, L* and FAN scale), albumen height, etc.
 - Performance: laying index, egg weight, egg mass, feed intake, feed conversion per dozen and per kg egg.
- Especial analysis: blood haematology and biochemistry, faeces microbiology, faecal digestibility.



ExperIments
AniMAl
StAtistics
ReSeArch
Development
AdditivEs



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EXPERIMENTAL
TRIALS AND EU
REGULATORY
AFFAIRS

PIGS

Sows

- Gestation, lactation, interval weaning-oestrus or combinations.
- 2 to 6 treatments with 20-40 sows per treatment in one-two consecutive batches.
- Sows allocated to treatments according to parity.
- Observations: feed intake sow, weight and backfat development sow, total (live and died) born piglets, piglets weight at birth and weaning (growth), mortality.
- Digestibility trials: faecal digestibility determined using HCl insoluble ash as indigestible marker.



Piglets

- Piglets weaned at 28 days of age.
- Trial duration: 42 days.
- 2 to 6 treatments with 12 replicates (10 piglets per pen).
- Observations: BW at 0, 14 and 42 days post-weaning, feed intake, growth, feed conversion, faecal consistency and mortality.
- Especial observations: microbiology analysis, mineral deposition in target organs, blood biochemistry and haematology and faecal digestibility.



Pigs for fattening

- Pigs from 70-80 days of age to slaughter weight.
- Duration of trials: 70-90 days (wean to finish also possible).
- 2 to 5 treatments with 12 replicates (10-12 pigs per pen).
- Observations: BW, feed intake, weight gain, feed conversion and mortality.
- Especial analysis: faecal digestibility, carcass quality and meat quality.



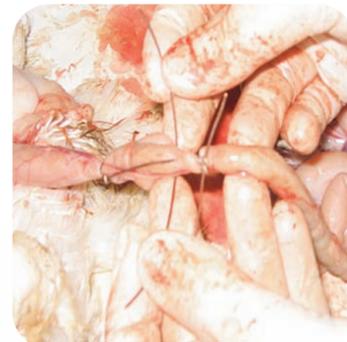
BROILERS I

Productive trials

- Testing new raw materials, additives, vaccination programs, etc.
- 96 floor pens of 1.58 x 1.16 m² with 22 broilers each.
- Suitable for factorial designs or dose-response trials.
- Up to 4 treatments in drinking water.
- Mixed or separated sexes.



- Standard observations: BW at arrival and at each feed phase change, growth, feed intake and feed conversion ratio per phase, mortality and litter quality.



- Special observations: slaughter yield, skin pigmentation, bone mineralization, intestinal health parameters, blood analysis, organ size development and digestive microbiology.

Digestibility trials

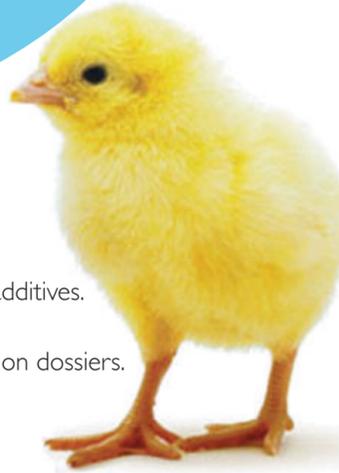
- Faecal and/or ileal digestibility (HCl insoluble ash as indigestible marker).



BROILERS II

Registration trials conformed European Union standards

- Strategic advice relating to EU regulatory affairs, particularly in feed additives.
- Compiling EU product registration dossiers.
- Design and co-ordination of studies for inclusion in product registration dossiers.
- Critical assessment and review of existing data and dossiers.
- Assistance on communication with EU regulatory authorities.



Infection trials

- ABSL-2
- 72 cages (54 x 45 x 55 cm³) up to 3 broilers/cage.
- Orally infection models implemented: Campylobacter, Salmonella, Clostridium, Eimeria, etc.
- Necropsies including organs size, blood samples, intestinal morphology, etc.

