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WP6 EXPERIMENTAL SETUP



Se Den Europæiske Landbrugsfond for Udvikling af Landdistrikterne



WP 6 IM, EM, C



	Castrates (C)	Immunocastration (IM)	Entiere males (EM)	No
HIGH Boar taint father	60	60	60	180
LOW Boar taint father	60	60	60	180
No	120	120	120	360

WP 6 IM, EM, C

Housing

- Danish standard rules
- 15 pigs per pen individual feeding (transponder)

Genotype

- D*LY

Start of trial: Autumn/winter 2017





Gross margin *background*

- Feed utilization
- Daily gain
- Lean meat
- Boar taint
 - S,A,HN
- Price castration
 - Anaesthesia
 - Mortality
- Price immuno castration?

Gross margin

- Testing level? 10%
 - Decides design and pigs/ treatment
- Value of rejected pigs
 - Level for rejection?

WP6 REGISTRATIONS (FINISHERS 30-115KG)



Individual

- Live weight at insertion
- Feed intake daily
- Mortality
- Disease
- Carcass weight
- Lean meat
- Boar taint (skatol, androstenon, human nose)

WP6 OTHER ISSUES



Time for vaccination

1. At approx. 30 kg insertion in finisher section
2. 4-6 weeks prior to slaughter

Feed & feeding

- Dry feed (pelleted)
- Ad libitum
- Nutrients in the diet?
 - Suggestion +18% energy and + 15% protein and as



WP6 OTHER TESTS?

Carcass quality

- Injuries – carcass
- Distribution of meat
- Meat quality
 - pH
 - Drip loss
 - Colour
 -
- Tenderness

Welfare

- Fighting (30-115 kg)
- Lairage
- Transportation
- Lairage at slaughterhouse
- Penis bite/lesions



WP6 SAMPLING

Live pigs

- Blood samples
 1. When?
 2. How many pigs?
 3. How much?
- Faeces
 1. When?
 2. How many pigs?
 3. How much?
- Ulcers
 1. When?
 2. How many pigs?
 3. How much?
- Fat biopsies?

After slaughter

- Blood samples -sticking?
- Fat samples
 - Where
 - How much
- Meat/cuts
 - Which part



Table 2. Nutrient content for growing-finishing pigs.¹

Pig weight	30-45 kg	45-65 30-105 ²	65-105 kg
Mcal / MJ DE/kg feed (NRC)	3.22 / 13.49	3.19 / 13.36	3.16 / 13.23
Mcal/ MJ ME / kg feed (NRC)	3.11 / 13.01	3.09 / 12.92	3.063 / 12.82
Mcal / MJ NE/ kg feed* (NRC)	2.35 / 9.83	2.34 / 9.79	2.34 / 9.79
EW /kg feed, NL	1.06	1.05	1.05
FUgp/kg, DK	1.08	1.07	1.07
MJ DE / ME per FUgp	12.5 / 12.0	12.5 / 12.1	12.4 / 12.0
Total, gram per kg, achieved in the examples (table 5)			
Crude protein	169	154	142
Phosphorus	5.0	4.8	4.5
Calcium	7.5	6.9	6.4
Lysine	10.8	9.4	8.6
Methionine	3.2	2.8	2.6
Met + cys	6.3	5.8	5.4
Threonine	7.1	6.5	6.0

Energy content per kg diet of a normal complete diet:

	Feed unit	MJ ME	MJ NE	MJ physiological energy
Lactation diets	1.06 FUsow	13.3	9.6	7.9
Gestation diets	0.99 FUsow	12.6	8.8	7.4
Weaner diets, 6-9 kg	1.18 FUgp	14.4	10.5	8.7
Weaner diets, 9-30 kg	1.17 FUgp	14.1	10.4	8.6
Finisher diets, 30-100 kg	1.07 FUgp	13.4	9.6	7.9