

COST Prague February 2017

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FEEDING MALE PIGS – STATUS IN DK

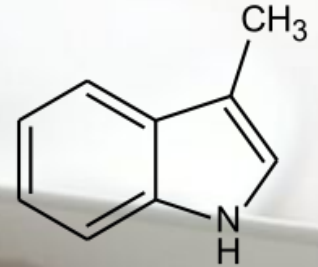
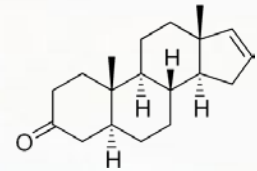


Se Den Europæiske Landbrugsfond for Udvikling af Landdistrikterne



BOARTAINT

What are we testing and what is the limit?



	Androstenon	Skatol	Human nose
Limit?	0.5 – 1.0 ppm	0.20 – 0.25 ppm	2

FEEDING STRATEGY - WET FEED OR DRY FEED

FEED PRICE 2016

*Economics: Male pigs vs.
castrates*

- Wet feed, max. 3,2 FE/dag:
 - FU: -0,13
 - Lean meat%: = + 2,5
 - +24 DKK (3,4 E) at 0 % rej. rate
- Balance at 14% red. rate

- Dry feed ad lib:
 - FU -0,24
 - Lean meat% = +2,6
 - + 30 DKK 4,3 E at 0% rej. rate
- Balance at 17% red. rate



CHICORY FOR MALE PIGS

- 15% chicory in the diet from 2 weeks before slaughter

Numbers of skatole		
Test	Control	15 % chicory
1	0,14a	0,08b
2	0,08a	0,05b

- No effect on androstenone
- No effect on boar taint

FEEDING WITH CLEAN GRAIN (50/50 BARLEY/WHEAT)

- Pure grain: Tested 4 and 2 days before slaughter
- Idea: Less tryptophan, less production of skatole
 - It is cheap
 - Practical
 - Male pigs in delivery room fed with grain 2 days
 - Only pigs for slaughter are fed pure grain
- Also relevant for organic production
 - Large pens
 - Great weight spread
 - Delivered over a long period

FEEDING WITH PURE GRAIN (50/50 BARLEY/WHEAT)

- Feeding pure grain - 4 days (all pigs in the pen)
 - Reducing effect on numbers of skatol - 25% (from 0.08 to 0.06 ppm)
 - No effect on the human nose
 - Costs 13-14 DKK in lost growth
- Feeding with pure grain for 2 days
 - Tendency skatol no effect on human nose

OTHER FIBERS



Control



Chicory 15 %
(4 days)



Grain
(3 days)

Jerusalem artichokes 10 %
(10 days)



Beet pulp
(14 days)



Palm cake
(14 days)



MAXIMUM GROWTH + REDUCED ODOR

- Increase the entire males growth - younger at slaughter
 - Increase protein and amino acids in feed with +15%
 - Increase energy (FUgp) with +8%
- Results
 - Male pigs daily gain was increased by 65 g (***)
 - 4 days younger at slaughter
 - Feed conversion and lean meat percentage was not affected
- Results for boar taint
 - Skatol equal
 - Lower human nose character



FEEDING MALE PIGS

Feeding
before
slaughter

Grain for 3
days
30% skatole

Chicory for
4 days
60% skatole

Other fiber
sources?

Time prior
to
slaughter?

Improvac
vaccination
how to feed?

Feed
additives

Active
coal

Other
additives?



Energy and
protein level –
dose reponse

Breeds?
Different
strategy

Feeding
strategy
ad lib
restrictive

WHAT DO WE DO NOW?

- Skatol can be controlled by feeding
- Androstenon increases with weight
- Boar taint is heritable
- **New projects**
 - Selection of fathers with high/low boar taint - completed in 2017
 - Concept test “odourless male pigs “
 - Selection of boars combined with feeding and management!
 - **SUSI:** Sustainable Production of Boars with Immunocastration
 - WP6 - economic sustainability: Test EM, IM,C
 - Feeding strategy?