

Netværksmøde 8. marts, Foulum



EFFECT OF PROTECTED METHIONINE

PRELIMINARY RESULTS FROM A DKC-TRIAL

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PURPOSE



- Can protected MET increase milk yield and/or milk components ?
- Is it economically beneficial ? (0,90 kr/cow/d)
- Can protected MET substitute feed protein ?

COWS & DESIGN

- DKC: AMS (DeLaval)
- 36 Jersey cows (18 primi- and 18 multiparous)
- LS-design (3 periods of 3 weeks)
- 3 PMR-diets: STD CP, LOW CP, LOW CP + MET
- Target: 17% CP on STD and 16% CP on LOW
- DK: STD=17,3% CP

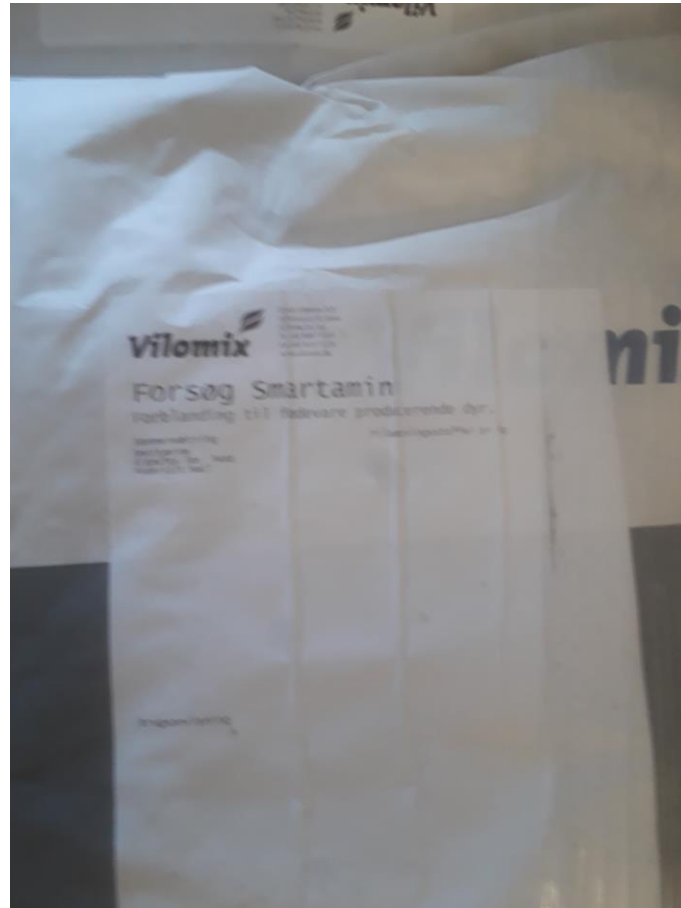
PLANNED DIET COMPOSITION

	Unit	STD CP	LOW CP	LOW CP + Met
Barley	% of DM	13,0	16,6	16,6
Rapeseed cake	% of DM	7,3	7,8	7,8
Soybean meal	% of DM	10,4	6,7	6,7
Grass silage	% of DM	23,4	23,3	23,3
Maize silage	% of DM	31,3	31,1	31,1
Min/vit	% of DM	1,0	1,0	1,0
RP_MET	% of DM	0,0	0,0	0,1
Concentrate_AMS	% of DM	13,5	13,5	13,5
Total	Kg DM	19,2	19,3	19,3

PLANNED NUTRIENTS

	Unit	STD CP	LOW CP	LOW CP + Met
Energy	MJ/day	129,1	129,1	129,2
Crude Protein	g/kg DM	174	160	160
AAT	g/MJ	17,4	16,2	16,3
PBV	g/kg DM	14	7	7
Fatty acids	g/kg DM	25	25	25
Starch	g/kg DM	226	245	245
NDF	g/kg DM	283	284	284
Methionine	g/day	46	44	52
Lysine	g/day	142	134	134
Lys/met ratio		3,1	3,0	2,6
Conc. share	%	54	54	54

PREMIX



PMR WITH RP_MET



RESULTS – FEED INTAKE

Treatment	PMR, kg	Concentrate, kg	Total feed intake, kg
Low CP	43,2	2,2	45,5
Low CP + Met	39,9	2,3	42,3
STD CP	42,4	2,3	44,8

RESULTS – MILK YIELD AND COMPOSITION

Treatment	Milk yield, kg	Protein %	Fat %	ECM, kg
Low CP	24,8 ^a	4,57 ^a	6,57 ^a	35,0 ^a
Low CP + MET	24,6 ^a	4,61 ^a	6,61 ^a	34,2 ^a
STD CP	25,3 ^b	4,55 ^b	6,55 ^a	34,7 ^a

PRELIMINARY CONCLUSION

- No effect of rp_MET on low CP-level
- No effect of 16 vs 17 % CP

FURTHER WORK

- Casein data
- AA status in blood data
- More data analysis