





UNIVERSITY OF COPENHAGEN				De	partment o	i Large Ani	mai sciences		
Meterials and wetherla									
Materials and methods									
 Sow were allotted to one of 	of six di	etary tr	eamer	nts:					
	Diet								
	1	2	3	4	5	6			
Composition									
Crude protein, %	14.2	14.2	14.2	14.2	14.2	14.2			
Standard digestible lysine, g/kg	7.1	7.1	7.1	7.1	7.1	7.1			
Standard digestible valine, g/kg	5.4	5.6	5.8	6.1	6.5	6.9			
Standard digestible Val:Lys, %	75.8	79.0	82.0	85.0	91.0	97.0	2		
Total Val:Lys, %	80.1	82.9	85.5	88.1	93.3	98.5	•		



	1	2	Di	et	F	6	SE	P-value Diet	
Val:Lys, %	80.1	2 82.9	85.5	+ 88.1	93.3	98.5		Diet	
n	12	12	12	11	13	10			
Feed intake, kg/d		Average	e intake	: 6.1 ±	0.8 kg	/d	0.24	0.66	
Valine intake, g/d	Ave	erage va	aline int	ake: 43	3.2 ± 5.	8 g/d	1.81	0.35	

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Results – M	ilk co	mposi	ition						
			C	Diet			SE	P- value	
	1	2	3	4	5	6		Diet	
Val:Lys, %	80.1	82.9	85.5	88.1	93.3	98.5			
n	8	9	10	8	9	6			
Dry matter, %		Avera	ge DM	: 17.4	± 1.5 %	-	0.64	0.33	
Lactose, %		Averag	e lacto	se: 5.6	6 ± 0.4 9	%	0.20	0.05	
Protein, %	/	Averag	e prote	in : 4.7	7 ± 0.4 %	%	0.19	0.90	6
Fat, %		Aver	age fat	: 7.2 ±	: 1.3 %		0.57	0.37	•



	J	Diet SE							
	1	2	3	4	5	6		Diet	
Val:Lys, %	80.1	82.9	85.5	88.1	93.3	98.5			
n	12	12	12	12	13	11			
Litter size weaning	100	Averag	e litter	size: 1	2.8 ± 1	.2 pigle	ets	0.25	
ADG, kg/d		Average ADG: 3.0 ± 0.6 kg/d							

Conclusion

No effect of increasing Val:Lys on
 Milk composition

• No need to increase Val:Lys above 80%

Litter ADG



