











and the second	g/10	0 g fat	g/dlr	nilk		
Fatty acids	CV	R ² cv	CV	R ² cv	R ² cv were	smalle
C4:0	32.35	0.39	39.51	0.51	for the pre	diction
C6:0	43.41	0.41	48.54	0.52	of FA in mi	lk fat
C8:0	43.85	0.46	49.12	0.59	1.2.2	
C10:0	42.76	0.53	45.78	0.64		
C10:1 9-cis	58.47	0.45	48.15	0.01		
CV for FA cor	ntent		g / 10	0 g fat	g / dl	milk
n milk fat we	re	Fatty acids	CV	R ² cv	CV	R ² cv
nenerally high	her	C14:0	21.03	0.67	28.63	0.82
ban tho CV f	or EA	C14:1 9-cis	44.28	0.23	39.68	0.07
		C15:0	29.82	0.53	30.07	0.40
concentration	i in	C16:0	19.06	0.50	33.01	0.82
nilk		C16.1 9-cis	34 81	0.37	52 48	0.65

g / 100 g fat g / dl milk					R ² _{cv} were		
Fatty acids	CV	R ² cv	CV	R ² cv	smalle	r for	
C18:1	19.67	0.53	37.92	2 0.88	the pre	edictior	
C18:2 9-cis. 12-cis	23.55	0.11	34.39	9 0.62	of FA i	n milk	
C18:3 9-cis, 12-cis, 15-cis	38.68	0.20	42.69	9 0.14	fat		
C18:2 9-cis, 11-trans	54.99	0.34	48.74	4 0.07	Iat		
n milk fat were	F		CV	Diave	CV	Die	
apporally higher	Fatty ac	ids	UV U	R ² CV	CV	R ² CV	
generally nigher	saturate	d	9.44	0.63	26.50	0.94	
	upooture	heted	17.44	0.63	34.66	0.66	
han the CV for FA	unsalura	nou					
han the CV for FA	monoun	saturated	18.49	0.52	38.13	0.85	



F	Res	ults and D	isc	ussion
 Valida Calik Valida 	tion pratic dation	with external mil on : June 2005 n : May 2006	lk sai	mples is beginning
31 sar	nple	s were analysed	by g	as chromatograph
and by	y MI	R Spectrometry.	The	contents were
compa	ared			
COMP2 Fatty acids	n N	Validation correlations		
COMPa Fatty acids C4:0	N 31	Validation correlations 0.22	_	
COMP2 Fatty acids C4:0 C6:0	N 31 31	Validation correlations 0.22 0.74	-	
COMP2 Fatty acids C4:0 C6:0 C8:0	N 31 31 31	Validation correlations 0.22 0.74 0.91	-	
COMpa Fatty acids C4:0 C6:0 C8:0 C10:0	N 31 31 31 31 31 31	Validation correlations 0.22 0.74 0.91 0.91	_	
COMP2 Fatty acids C4:0 C6:0 C8:0 C10:0	81760 81 31 31 31 31 31	Validation correlations 0.22 0.74 0.91 0.91 Fatty acids		validation correlations
COMP2 Fatty acids C4:0 C6:0 C8:0 C10:0	ared <u>N</u> 31 31 31 31 31 31	Validation correlations 0.22 0.74 0.91 0.91 Fatty acids C12:0	 <u>N</u> 31	validation correlations 0.86
COMP8 Fatty acids C4:0 C6:0 C8:0 C10:0	nred <u>N</u> 31 31 31 31 31	Validation correlations 0.22 0.74 0.91 0.91 C12:0 C12:0 C14:0	N 31 31	validation correlations 0.86 0.84
COMP2 Fatty acids C4:0 C6:0 C8:0 C10:0	nred <u>N</u> 31 31 31 31 31 31	Validation correlations 0.22 0.74 0.91 0.91 Fatty acids C12:0 C14:0 C14:1 9-cis	N 31 31 31 31	validation correlations 0.86 0.84 0.21
COMP2 Fatty acids C4:0 C6:0 C8:0 C10:0	nred 31 31 31 31 31	Validation correlations 0.22 0.74 0.91 0.91 Fatty acids C12:0 C14:0 C14:1 9-c/s C16:0	N 31 31 31 31 31	validation correlations 0.86 0.84 0.21 0.82

rally acius	N validat	ion correla	ations
C18:0	31	-0.26	
C18:1 9-cis	31	0.91	
C18:2 9-cis, 12-cis	31	0.32	
C18:3 9-cis, 12-cis, 15-cis	31	0.006	
C18:2 9-cis, 11-trans	31	0.05	A CONTRACTOR OF
	Fatty acids	N	validation correlations
	Fatty acids saturated	N 31	validation correlations 0.92
	Fatty acids saturated unsaturated	N 31 31	validation correlations 0.92 0.83
	Fatty acids saturated unsaturated monounsaturated	N 31 31 31	validation correlations 0.92 0.83 0.82



g / dl milk	Mean	SD	SEC	R ² c	SECV	R ² C
MG	4.55	1.18	0.05	1.00	0.06	1.00
saturated	2.95	0.78	0.12	0.98	0.20	0.94
unsaturated	1.65	0.57	0.29	0.74	0.34	0.6
monounsaturated	1.44	0.55	0.18	0.89	0.22	0.8
polyunsaturated	0.14	0.05	0.03	0.43	0.04	0.39
C4:0	0.28	0.11	0.07	0.59	0.08	0.5
C6:0	0.13	0.06	0.04	0.69	0.04	0.5
C8:0	0.07	0.03	0.02	0.75	0.02	0.5
C10:0	0.14	0.06	0.03	0.77	0.04	0.6
C10:1 9-cis	0.01	0.01	0.01	0.05	0.01	0.0
C12:0	0.12	0.04	0.02	0.82	0.02	0.74
C14:0	0.41	0.12	0.04	0.90	0.05	0.8
C14:1 9-c/s	0.03	0.01	0.01	0.12	0.01	0.0
C15:0	0.04	0.01	0.01	0.58	0.01	0.40
C16:0	1.17	0.39	0.11	0.91	0.17	0.8
C16:1 9-cis	0.06	0.03	0.02	0.75	0.02	0.6
C18:0	0.56	0.24	0.12	0.73	0.13	0.69
C18:1	1.34	0.51	0.12	0.95	0.18	0.8
C18:2 9-cis, 12-cis	0.09	0.03	0.02	0.76	0.02	0.6
C18:3 9-cis, 12-cis, 15-cis	0.03	0.01	0.01	0.20	0.01	0.14
C18:2 9-cis, 11-trans	0.04	0.02	0.02	0.12	0.02	0.0



