Supplementary Table 1.

Diet compositions (g/kg diet) *

Groups / Composition	LF		HF		HF+RO	
	g	kcal	g	kcal	g	kcal
corn starch	405	1397.3	195	672.8	195	672.8
lard	–	–	200	1794	100	897
Rapeseed oil	–	–	–	–	100	899
Soybean oil	45	397.8	45	397.8	45	397.8
Casein	200	710	200	710	200	710
Maltodextrin	150	600	150	600	150	600
Cellulose	50	189	50	189	50	189
Cholesterol	–	–	10	300	10	300
DL–methionine	3	12	3	12	3	12
Sucrose	100	389	100	389	100	389
Choline	2	8	2	8	2	8
Mineral premix	35	–	35	–	35	–
Vitamin premix	10	–	10	–	10	–
Total	1000	3703.1	1000	5072.6	1000	5074.6

* RO –10% rapeseed oil in the diet.

Supplementary Table 2.

Supplementary Table 2 Determination of fatty acid methyl ester standard curve *

FA	Linear equation	R^2	FA	Linear equation	R^2
C4:0	y=7.58466E+6x+65081	0.9982	C18:2	y=1.25244E+5x+203064	0.9959
C6:0	y=9.46774E+6x+124607	0.9983	C18:3ω6	y=1.26765E+7x	0.9961
C8:0	y=1.08844E+7x+172296	0.9970	C18:3ω3	y=1.25739E+7x	0.9952
C10:0	y=2.41072E+7x+207062	0.9962	C20:0	y=1.48597E+7x	0.9973
C11:0	y=1.29531E+7x	0.9973	C20:1	y=1.49762E+7x	0.9971
C12:0	y=1.27589E+7x+253590	0.9952	C21:0	y=1.56412E+7x	0.9960
C13:0	y=1.2759E+7x+119950	0.9976	C20:2	y=1.00192E+7x+392827	0.9938
C14:0	y=1.38205E+7x	0.9971	C20:3ω6	y=1.14977E+7x+113475	0.9964
C14:1	y=1.27388E+7x+143441	0.9970	C20:4ω6	y=9.88098E+6x+116822	0.9951
C15:0	y=1.33225E+7x+130811	0.9960	C20:3ω3	y=1.0948E+7x+112398	0.9962
C15:1	y=1.27939E+7x+126060	0.9961	C22:0	y=1.41801E+7x+237731	0.9963
C16:0	y=9.86576E+6x+534951	0.9962	C22:1	y=1.36095E+7x+114609	0.9961
C16:1	y=1.40858E+7x	0.9953	C20:5ω3	y=9.68679E+6x+138806	0.9920
C17:0	y=1.37531E+7x+127130	0.9971	C23:0	y=6.19724E+6x+265765	0.9958
C17:1	y=1.36085E+7x+134516	0.9972	C22:2	y=1.29354E+7x+187968	0.9929
C18:0	y=1.35716E+7x+290605	0.9961	C22:4	y=1.44581E+7x+176952	0.9927
C18:1(T)	y=1.38585E+7x+132075	0.9972	C24:1	y=1.44279E+7x+141102	0.9963
C18:1	y=1.3231E+7x+404196	0.9963	C22:6ω3	y=8.66604E6+6x+164655	0.9981
C18:2(T)	y=1.22348E+7x+118136	0.9974			

* FA– fatty acid.