

Detailed fatty acid profile of milk, cheese, ricotta and by products, from cows grazing summer highland pastures

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SUPPLEMENTARY FILE

Table S1. Groups of fatty acids (FA) and fatty acids indices measured by two-dimensional gas chromatography mass spectrometry (GC×GC)

Categories	Individual FA
\sum even SFA	4:0; 6:0; 8:0;10:0; 12:0; 14:0; 16:0; 18:0; 20:0; 22:0
\sum odd SFA	7:0; 9:0; 11:0; 13:0; 15:0; 17:0; 19:0
\sum branched SFA	13:0 anteiso; 13:0 iso; 14:0 iso; 15:0 anteiso; 15:0 iso; 16:0 iso; 17:0 anteiso; 17:0 iso; 18:0 iso
\sum MUFA C ₁₀₋₁₇	10:1, 12:1cis; 12:1trans; 14:1cis-9; \sum 14:1 others; 15:1; 16:1cis-7; 16:1trans-7; \sum 16:1 others; 17:1cis-10
\sum MUFA C ₁₈₋₂₀	18:1cis-6; 18:1cis-9; 18:1cis-11; 18:1trans-11; 18:1cis-15; \sum 18:1 others; 20:1cis-9; 20:1cis-12
\sum MUFA	\sum MUFA C ₁₀₋₁₇ ; \sum MUFA C ₁₈₋₂₀
\sum CLA	18:2cis-9,cis-11; 18:2cis-9,trans-11; 18:2trans-9,trans-11; 18:2cis-10,cis-12; 18:2trans-10,cis-12; 18:2cis-11,trans-13
\sum n-3 FA	18:3n-3; 20:3n-3; 20:4n-3; 20:5n-3; 22:5n-3
\sum n-6 FA	18:2n-6; 18:3n-6; 20:2n-6; 20:3n-6; 20:4n-6
\sum PUFA	\sum 16:2; \sum CLA; \sum n-3 FA; \sum n-6 FA
\sum n-6 FA/ \sum n-3 FA	\sum n-6FA/ \sum n-3FA
<i>Desaturase indices</i> [†] :	
C14	14:1cis-9/(14:1cis-9 + 14:0)
C18	18:1cis-9/(18:1cis-9 + 18:0)
CLAcis-9,trans-11	18:2cis-9,trans-11/(18:2cis-9,trans-11 + 18:1trans-11)
<i>Health indices</i> [‡] :	
Atherogenic (AI)	(12:0 + 4 × 14:0 +16:0)/(MUFA + n-3 PUFA + n-6 PUFA)
Thrombogenic (TI)	(14:0 + 16:0 + 18:0)/(0.5 × MUFA + 0.5 × n-6 PUFA + 3× n-3 PUFA/n-6 PUFA)

[†]Computed according to Kelsey *et al.* (2003); [‡]Computed according to Ulbricht & Southgate (1991)

Figure S1. Example of a chromatogram of a milk sample obtained by two-dimensional gas chromatography mass spectrometry (GC×GC)

