

Claims

1. Fat composition comprising a mixture of triacylglycerols (TAG) originating from a bovine milk fat source and a vegetable lipid source, said mixture being
5 characterized by:
- (a) a content of butanoate groups (C4:0) of 0.5-2.8 % by weight, preferably 0.6-2.7% by weight, based on total weight of fatty acid acyl groups in TAG;
 - (b) a wLCSFA(sn-1,3) of 18.0-35.0% by weight, preferably 19.0 to 32.0% by weight;
 - 10 (c) a mLCFA (sn-1,3) of 48.0-61.0 mol%, preferably 50.0-59.0 mol%; and
 - (d) a ratio mLCFA (sn-1,3) / SFA of 0.70-1.25, preferably 0.80-1.20,
- wherein:
- LCFA(sn-1,3) are the long chain fatty acid acyl groups having a chain
length of 12 or more carbon atoms at the sn-1 and sn-3 position in TAG;
 - 15 - LCSFA(sn-1,3) are the long chain saturated fatty acid acyl groups having a chain length of 12 or more carbon atoms at the sn-1 and sn-3 position in TAG;
 - wLCSFA(sn-1,3) is the amount of LCFA(sn-1,3) in % by weight based on total weight of fatty acid acyl groups in TAG;
 - 20 - mLCFA(sn-1,3) is the mole fraction of LCFA(sn-1,3) based on total moles of fatty acid acyl groups in the TAG as expressed in mol%; and
 - SFA is the mole fraction of saturated fatty acid acyl groups in the TAG as expressed in mol%.
- 25 2. The Fat composition according to claim 1, comprising a mixture of triacylglycerols (TAG) originating from a bovine milk fat source and a vegetable lipid source, said mixture being characterized by:
- (a) a content of butanoate groups (C4:0) of 0.5-2.2 % by weight, preferably 0.6-2.0% by weight, based on total weight of fatty acid acyl groups in TAG;
 - 30 (b) a wLCSFA(sn-1,3) of 18.0-35.0% by weight, preferably 19.0 to 32.0% by weight;
 - (c) a mLCFA (sn-1,3) of 48.0-61.0 mol%, preferably 50.0-59.0 mol%; and

(d) a ratio mLCFA (sn-1,3) / SFA of 0.95-1.25, preferably 1.00-1.20,
wherein:

- LCFA(sn-1,3) are the long chain fatty acid acyl groups having a chain length of 12 or more carbon atoms at the sn-1 and sn-3 position in TAG;
- 5 - LCSFA(sn-1,3) are the long chain saturated fatty acid acyl groups having a chain length of 12 or more carbon atoms at the sn-1 and sn-3 position in TAG;
- wLCSFA(sn-1,3) is the amount of LCFA(sn-1,3) in % by weight based on total weight of fatty acid acyl groups in TAG;
- 10 - mLCFA(sn-1,3) is the mole fraction of LCFA(sn-1,3) based on total moles of fatty acid acyl groups in the TAG as expressed in mol%; and
- SFA is the mole fraction of saturated fatty acid acyl groups in the TAG as expressed in mol%.

15 3. Fat composition according to claim 1 or 2 comprising 10-60 wt%, based on total weight of TAG, of TAG originating from the bovine milk fat source.

4. Fat composition according to claim 3, wherein the bovine milk fat source is whole milk and/or cream.

20 5. Nutritional composition comprising proteins, carbohydrates and a lipid source, wherein the lipid source comprises the fat composition according to any one of claims 1 to 4.

25 6. Nutritional composition according to claim 5, wherein the nutritional composition has a ratio

$$\frac{\text{mLCFA(sn-1,3)} * (\text{Ca} + \text{Mg})}{\text{SFA}}$$

in the range of 0.40 to 0.75 grams per 100 grams of nutritional composition (g/100 g), preferably 0.45 to 0.60 g/100 g, with

- 30 - (Ca + Mg) = concentration of calcium plus concentration of magnesium in the nutritional composition in g/100 g.

7. The nutritional composition of claim 5 or 6 for the treatment of gut discomfort and/or constipation in human subjects of 0-36 months of age, suitably young children of 0-12 months of age and most suitably infants of 0-6 months of age.
8. Non-therapeutic use of the composition of claim 5 or 6 for reducing the intestinal formation of calcium and magnesium fatty acid soaps.
9. The fat composition of anyone of claims 1-4 for the treatment of gut discomfort and/or constipation in human subjects of 0-36 months of age, suitably young children of 0-12 months of age and most suitably infants of 0-6 months of age.
10. Non-therapeutic use of the fat composition of anyone of claims 1-4 for reducing the intestinal formation of calcium and magnesium fatty acid soaps.