Claims

1. Use of a synthetic composition comprising one or more compounds according to formula 1, or a pharmaceutically acceptable salt, solvate or ester thereof, in the manufacture of a medicament for reduction of cholesterol level;
wherein the compound of Formula 1 is

Y_n→D-Gal-ß1→3-(Y_m→)(X_p→)D-GlcNAc-ß1→3-D-Gal-ß1→4-(X_q→)-D-Glc

Formula 1

wherein

X is α-L-Fucose (α-L-Fuc),

Y is N-acetyl-D-neuraminic acid (Neu5Ac-α-2-)

n, m, p, q indicate the number of the monosaccharide residues present in the compound of formula 1 and n is 0 or 1; m is 0 or 1; p is 0 or 1; q is 0 or 1;

and $n+m+p+q \geq 1$;

preferably, wherein p=1 if q=1;

more preferably, wherein n = 1 and $m \leq 1$;

particularly preferably,

wherein n=0 and m=0 if $p+q \geq 1$; or if $n+m \geq 1$ then p+q =0,

wherein the compound of Formula 1 is selected from the group consisting of lactodifucoheaxose II (LNDFHII), sialyllacto-N-tetraose a (LSTa) or disialyllacto-N-tetraose (DSLNT), or a combination thereof.

2. The use of claim 1, wherein the use is a reduction of tissue cholesterol levels.

3. The use of any of the preceding claims, wherein the composition comprises two or more compounds according to formula 1.

4. The use of any of the preceding claims, wherein the composition comprises two or more compounds selected from the group consisting of lactodifucoheaxose II (LNDFHII), sialyllacto-N-tetraose a (LSTa) or disialyllacto-N-tetraose (DSLNT), or a combination thereof.

5. The use of any of the preceding claims, wherein the composition further comprises fat, protein and carbohydrate, preferably wherein the fat is a mixture of vegetable fat and milk fat, more preferably wherein the milk fat is bovine milk fat.

6. The use of any of the preceding claims, wherein the composition is an infant formula, preferably, wherein the composition is a formula for children having an age selected from the group consisting of 0-6 months, 0-12 months, 6-12 months 12-24 months, 12-36 months and 24-36 months; or wherein the composition is an adult formula.

7. The use of any of the preceding claims wherein the composition is a food product selected from the group consisting of confectionary products; nutritionally complete food products; desserts, in particular a pudding, yoghurt, custard, vla, ice-cream, or milk-shake; beverages, in particular a fruit juice or milk; breakfasts, such as porridge, cereals; soups; and sauces.

8. The use of any of the preceding claims wherein the composition is further comprising one or more human milk oligosaccharides (HMOs) other than a compound according to formula 1; preferably, wherein the composition further comprises LNFP II or LNFP III, more preferably, wherein the composition further comprises LNFP II and LNFP III.

9. The use of any of the preceding claims, wherein the composition further comprises one or more probiotics and / or one or more prebiotics.

10. The use of any of the preceding claims, wherein the composition further comprises a biologically effective amount of lactoferrin, preferably comprising more than 0.01 wt% of dry composition.

11. The use of any of the preceding claims, characterized in that the composition does not comprise purified adiponectin.

12. The use of any of the preceding claims, wherein the composition further comprises soluble CD14.

13. The use of any of the preceding claims wherein the amount of compound according to formula 1 is between 0.001 wt% and 15 wt% of total dry weight of the composition, preferably between 0.01 and 10 wt%, more preferably between 0.01 and 5 wt%.

14. The use of any of the preceding claims, wherein the composition is for use in medicine, preferably for use in a human.