THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A skim milk product or fat containing milk product comprising a concentrated milk protein component and a carbohydrate component wherein the carbohydrate component comprises:

(i) an amount of a DP1 sugar selected from the group consisting of glucose, galactose~~, fructose~~ or a combination thereof that is in total 3.0-18.0% w/w of the total carbohydrate component, and

(ii) an amount of a DP2 sugar selected from the group consisting of maltose, lactose~~, sucrose, di-fructose~~ or a combination thereof that is in total 2.0-40.0 % w/w of the total carbohydrate component, and

(iii) one or more digestible polysaccharide hydrolysates selected from the group consisting of dextrins, maltodextrins, malto-triose, glucose syrups~~, polyfructose, fructose syrups~~ or a combination thereof wherein the one or more digestible polysaccharide hydrolysates provide in total an amount of a DP3 oligosaccharide that is 6.0-26.0% w/w of the total carbohydrate component, and

(iv) less than 0.2% w/w of lactose on a dry solids basis;

and wherein the milk protein component is between 23.0%-38.0% w/w of the product on a dry solids basis and the milk product has a reductive carbohydrate (DP1+DP2+DP3) to milk protein mass ratio of 10.0–70.0.

2. The product according to claim 1, wherein the reductive carbohydrate (DP1+DP2+DP3) to milk protein mass ratio is 12.0-64.0.

3. The product according to claim 1, wherein the reductive carbohydrate (DP1+DP2+DP3) to milk protein mass ratio is 19.0-50.0.

4. The product according to claim 1, wherein the reductive carbohydrate (DP1+DP2+DP3) to milk protein mass ratio is 32.0-60.0.

5. The product according to claim 1, wherein the reductive carbohydrate (DP1+DP2+DP3) to milk protein mass ratio is 35.0-50.0.

6. The product according to any one of claims 1-5, wherein the one or more digestible polysaccharide hydrolysates have a Dextrose Equivalence of 8-43.

7. The product according to claim 6, wherein the one or more digestible polysaccharide hydrolysates have a Dextrose Equivalence of 8-41.

8. The product according to claim 6, wherein the one or more digestible polysaccharide hydrolysates have a Dextrose Equivalence of 8-31.

9. The product according to claim 6, wherein the one or more digestible polysaccharide hydrolysates have a Dextrose Equivalence of 15-31.

10. The product according to claim 6, wherein the one or more digestible polysaccharide hydrolysates have a Dextrose Equivalence of 28-31.

11. The product according to claim 6, wherein the one or more digestible polysaccharide hydrolysates have a Dextrose Equivalence of 17-20.

12. The product according to any one of claims 1-11, wherein the one or more digestible polysaccharide hydrolysates are a maltodextrin.

13. The product according to any one of claims 1-11, wherein the product has an osmolality of 170-295 mOsmoles/kg.

14. The product according to any one of claims 1-11, wherein the product is a liquid, concentrated or dried skim milk product or a liquid, concentrated or dried fat-containing milk product.

15. The product according to any one of claims 1-14, wherein the total mass of the DP1 sugar on a dry solids basis is greater than the total mass of the DP2 sugar on a dry solids basis.