Claims

1. A composition comprising a combination of Vitamin B6 and Nicotinamide, in a therapeutically effective amount for use in promoting muscle growth and/or preventing sub-optimal muscle growth or for use in increasing muscle function and/or muscle mass in a subject who is an infant, a young child and/or a child.

2. A composition for use according to claim 1 whereby promotion of muscle growth and/or prevention of sub-optimal muscle growth is achieved by increasing muscle function and/or muscle mass.

3. The composition for use according to claim 1 or 2, wherein the vitamin B6 is administered in an amount of 1.0- 200 mg vitamin B6 per day, for example 1.0-25.0 mg vitamin B6 per day.

4. The composition for use according to any of claims 1 to 3, wherein the Nicotinamide is administered in an amount of about 0.001 mg/day to about 2000 mg/day, preferably about 1 mg/day to about 500 mg/day.

5. The composition for use according to any of claims 1 to 4, wherein the Vitamin B6: Nicotinamide are present in a ratio of from about 1:100 to about 1:9, preferably from about 1:80 to about 1:20, preferably from about 1:75 to about 1:25, more preferably from about 1:60 to about 1:30.

6. The composition for use according to any of claims 1 to 5, wherein the Vitamin B6: Nicotinamide are present in a ratio of from about 1:45 to about 1:30.

7. The composition for use according to any of claims 1 to 6, wherein the composition is an oral nutritional composition, an infant formula, a follow up formula, a nutritional supplement, an oral nutritional supplement, a medical food, a food supplement, a food product, a food for special medical purpose (FSMP).

8. The composition for use according to any of claims 1 to 7, wherein the composition is in a form of a solid powder, a powdered stick, a capsule or a solution.

9. The composition for use according to any of claims 1 to 8, for promoting muscle growth in a subject, for example in need thereof.

10. The composition for use according to any of claims 1 to 9, wherein the Nicotinamide and Vitamin B6 are administered together in the same composition.

11. The composition for use according to any of claims 1 to 10, wherein the Nicotinamide is administered separately in a different composition from the Vitamin B6.

12. The composition for use according to any of claims 1 to 11, wherein the Vitamin B6 and the nicotinamide are administered together in a food product further comprising a component selected from the group consisting of protein, carbohydrate, fat and mixtures thereof.

13. The composition for use according to anyone of claims 1 to 12, wherein Vitamin B6 is pyridoxine.

14. A kit for use in promoting muscle growth and /or preventing sub-optimal muscle growth or for use in increasing muscle function and/or muscle mass in a subject who is an infant, a young child and/or a child, the kit comprising a therapeutically effective amount of Nicotinamide; and vitamin B6.