

Claims

1. A salt substitute formulation for use as a calcium supplement comprising a recrystallized composition comprising: 40 to 65 weight percent sodium chloride; 15 to 40 weight percent potassium chloride; 10 to 20 weight percent calcium chloride and optionally 0.1 to 3.5 weight percent of at least two taste enhancing compounds, the weight percentages being based on the total composition.
2. The formulation according to claim 1, wherein the at least two taste enhancing compounds are selected from L-glutamine; L-theanine; disodium succinate; monopotassium succinate; dipotassium succinate; succinic acid; disodium succinate; fumarates; malonates; glutarates; tartrates and a combination thereof.
3. The formulation according to claim 1, wherein the at least two taste enhancing compounds comprises L-theanine and anhydrous disodium succinate.
4. The formulation according to claim 1, wherein the recrystallized composition comprises sodium chloride; potassium chloride; calcium chloride; L-theanine and anhydrous disodium succinate at a ratio in the range of 400:150:100:25:1:1 to 26:16:8:1:1.
5. The formulation according to any one of claims 1 to 4, further comprising an anticaking agent.
6. The formulation according to claim 5, wherein the anticaking agent comprises silicon dioxide.
7. The formulation according to claim 5 or 6, wherein sodium chloride; potassium chloride; calcium chloride L-theanine anhydrous disodium succinate and the anticaking agent are in the ratio of 212:111:68:20:5:2.
8. The formulation according to any one of claims 1 to 7, further comprising vitamin D.
9. A method of manufacturing a salt substitute formulation according to any one of claims 1 to 8 comprising:
 - a. combining sodium chloride; potassium chloride; calcium chloride at a ratio in the range of 9:8:3 to 26:14:9 and optionally, at least two taste enhancing compounds in the range of 0.1 to 3.5 weight percent of the total combined composition;
 - b. adding an aqueous liquid to the composition to form a mixture;
 - c. heating the mixture to form a slurry;
 - d. drying the slurry to a crystal form; and
 - e. milling the crystals.

10. The method according to claim 9, wherein step (a) comprises combining sodium chloride; potassium chloride; calcium chloride; L-theanine and anhydrous disodium succinate at a ratio in the range of 400:150:100:25:1:1 to 26:16:8:1:1.
- 5 11. The method according to claim 9 or 10, wherein the mixture is heated at 80°C in step (b).
12. The method according to any one of claims 9 to 11, wherein the slurry is dried at a temperature of 50°C to 90°C.
13. The method according to any one of claims 9 to 12, wherein the slurry is dried under vacuum or continuous air flow.
- 10 14. The method according to any one of claims 9 to 13, wherein the milled crystals are blended with an anticaking agent.
15. The method according to claim 14, wherein the anticaking agent comprises silicon dioxide.
- 15 16. The method according to any one of claims 9 to 15, wherein the milled crystals are blended with vitamin D.
17. A calcium supplement in the form of a salt substitute obtained by the method according to any one of claims 9-17.
18. A method of supplementing calcium comprising substituting the use of table salt in food with the salt substitute formulation according to any one of claims 1 to 8; or the calcium supplement according to claim 17.
- 20 19. Use of the salt substitute formulation according to any one of claims 1 to 8; or the calcium supplement according to claim 17; in the manufacture of a medicament for calcium deficiency.