CLAIMS

It is claimed:

1. A composition comprising apple cider vinegar (ACV) in a solid form and a salt of acetic acid, the ratio of apple cider vinegar to the salt of acetic acid being between about 1.5 to 0.5.

2. The composition as claimed in claim 1 wherein the ACV is present as a dry powder.

3. The composition as claimed in claim 1 wherein the salt of acetic acid is selected from at least one of the following: sodium acetate, calcium acetate, potassium acetate, sodium di-acetate, potassium di-acetate, acetate, iron acetate, and magnesium acetate.

4. The composition as claimed in claim 1 configured in the form of a deliverable package, wherein the deliverable package comprises a package selected from one of the following: chewable tablet; swallowable tablet; fast melt tablet; chewable gummy; sucker gummy; capsule.

5. The composition as claimed in claim 4 wherein the package comprises a capsule containing an efficacious dose of the composition, wherein the efficacious dose comprises a plurality of capsules, and wherein the plurality of capsules comprises 2 to 8 capsules.

6. The composition as claimed in claim 1 further comprising a combination of vitamins, minerals and nutrients selected for their ability to provide health benefits to a user.

7. The composition as claimed in claim 5 wherein the efficacious dose is configured to deliver about 100mg to about 1000mg of acetic acid.

8. A nutritional supplement composition comprising apple cider vinegar (ACV) in a dry powder form and a salt of acetic acid, the ratio of apple cider vinegar to the salt of acetic acid being between about 1.5 to about 0.5, the nutritional supplement being deliverable in a dose where the amount of ACV is between about 500mg and about 1500mg.

9. The nutritional supplement composition as claimed in claim 8 wherein the dry powder comprises:

Organic Apple Cider Vinegar Powder 3-8% Acetic Acid in an amount about 313mg – about 940mg;

Sodium Diacetate food grade crystal in an amount about 250mg - about 750mg;

Vitamin D3 Cholecalicferol 100,000 iu in an amount about 0.01mg- about 0.03mg;

Zinc Oxide having about 80% ZN powder in amount about 4.3mg - about 13mg;

Silicon Dioxide powder in an amount about 3.2mg – about 9.6mg; and Pea Starch powder in an amount about 24.4mg -73.3mg.

10. The nutritional supplement composition as claimed in claim 9 further comprising an excipient and one more from the group consisting of: Thiamine, Riboflavin, Niacin, Biotin, Pantothenic acid, Pyridoxine, Vitamin B12, Folic Acid, Vitamin C, Vitamin D, Vitamin E, Vitamin K, Calcium, Potassium, Phosphorus, Sodium, Magnesium, Iron, Zinc, Copper, Selenium, Molybdenum, Iodine.

11. A composition comprising about 1677mg of a blend in approximately 1 to 1 ratio of about 847mg sodium di-acetate and about 830mg of dry apple cider vinegar powder, an excipient, and a discretionary ingredient selected for its ability to enhance the health of a user.

12. The method of making an apple cider vinegar (ACV) composition comprising:

filtering apple cider vinegar to remove selected solid particles and impurities to form a purified ACV;

diluting the purified ACV to achieve solid content suitable for spray drying;

feeding the diluted purified apple cider vinegar solution into a spray dryer chamber;

atomizing the solution in the spray dryer to form fine droplets of the solution;

spraying the droplets of apple cider vinegar on to a carrier;

collecting the dried particles formed;

separating the solid particles from the air in a drying chamber to form a powder; and

sizing and packaging the powder.

13. The method as claimed in claim 12 further comprising the step of adding sodium diacetate to the powder.

14. The method as claimed in claim 13 wherein the sodium diacetate is produced by reacting acetic acid with sodium bicarbonate.

15. The method as claimed in claim 14 wherein the reaction of acetic acid and sodium bicarbonate is carried out in the following steps:

reacting acetic acid (CH_3COOH) with sodium bicarbonate (NaHCO3) in a controlled environment to form sodium acetate (CH_3COONa), water (H_2O), and carbon dioxide (CO_2);

concentrating the sodium acetate solution obtained from the reaction and allowing to cool such that sodium diacetate crystals start to form;

separating the crystals from the remaining solution through filtration;

drying the sodium diacetate crystals to remove moisture;

milling and packaging the sodium diacetate crystals to achieve a selected particle size.