

**Food Standards (Proposal P1025 – Code Revision) Variation**

The Board of Food Standards Australia New Zealand gives notice of the making of this standard under section 92 of the *Food Standards Australia New Zealand Act 1991*. The Standard commences on 1 March 2016.

Dated 25 March 2015



Standards Management Officer

Delegate of the Board of Food Standards Australia New Zealand

Note:

This Standard will be published in the Commonwealth of Australia Gazette No. FSC 96 on 10 April 2015.

Schedule 17 Vitamins and minerals

***Note 1*** This instrument is a standard under the *Food Standards Australia New Zealand Act 1991* (Cth). The standards together make up the *Australia New Zealand Food Standards Code.* See also section 1.1.1—3.

Use of vitamins and minerals is regulated by several standards, including Standard 1.1.1 and Standard 1.3.2. This Standard:

● lists foods and amounts for the definition of ***reference quantity*** in section 1.1.2—2; and

● contains permissions to use vitamins and minerals as nutritive substances for section 1.3.2—3; and

● lists permitted forms of vitamins and minerals for subparagraph 2.9.3—3(2)(c)(i), paragraph 2.9.3—5(2)(c), paragraph 2.9.3—7(2)(c) and sub-subparagraph 2.9.4—3(1)(a)(ii)(A), as well as permitted forms of calcium for paragraph 2.10.3—3(b); and

● lists vitamins and minerals for the definition of ***claimable vitamin or mineral*** in subsection 2.9.3—6(6) and subsection 2.9.3—8(7).

***Note 2*** The provisions of the Code that apply in New Zealand are incorporated in, or adopted under, the *Food Act 2014* (NZ). See also section 1.1.1—3.

S17—1 Name

This Standard is *Australia New Zealand Food Standards Code* – Schedule 17 – Vitamins and minerals.

***Note*** Commencement:This Standard commences on 1 March 2016, being the date specified as the commencement date in notices in the *Gazette* and the New Zealand Gazette under section 92 of the *Food Standards Australia New Zealand Act 1991* (Cth). See also section 93 of that Act.

S17—2 Permitted forms of vitamins

Permitted forms of vitamins

| Vitamin | Permitted form |
| --- | --- |
| Vitamin A |  |
| Retinol forms | Vitamin A (retinol) |
|  | Vitamin A acetate (retinyl acetate) |
|  | Vitamin A palmitate (retinyl palmitate) |
|  | Vitamin A propionate (retinyl propionate) |
| Provitamin A forms | beta-apo-8′-carotenal |
|  | beta-carotene-synthetic |
|  | carotenes-natural |
|  | beta-apo-8′-carotenoic acid ethyl ester |
| Thiamin (Vitamin B1) | Thiamin hydrochloride |
|  | Thiamin mononitrate |
|  | Thiamin monophosphate |
| Riboflavin (Vitamin B2) | Riboflavin |
|  | Riboflavin-5′-phosphate sodium |
| Niacin | Niacinamide (nicotinamide) |
|  | Nicotinic acid |
| Folate | Folic acid |
|  | L-methyltetrahydrofolate, calcium |
| Vitamin B6 | Pyridoxine hydrochloride |
| Vitamin B12 | Cyanocobalamin |
|  | Hydroxocobalamin |
| Pantothenic acid | Calcium pantothenate |
|  | Dexpanthenol |
| Vitamin C | L-ascorbic acid |
|  | Ascorbyl palmitate |
|  | Calcium ascorbate |
|  | Potassium ascorbate |
|  | Sodium ascorbate |
| Vitamin D | Vitamin D2 (ergocalciferol) |
|  | Vitamin D3 (cholecalciferol) |
| Vitamin E | dl-alpha-tocopherol |
|  | d-alpha-tocopherol concentrate |
|  | Tocopherols concentrate, mixed |
|  | d-alpha-tocopheryl acetate |
|  | dl-alpha-tocopheryl acetate |
|  | d-alpha-tocopheryl acetate concentrate |
|  | d-alpha-tocopheryl acid succinate |

S17—3 Permitted forms of minerals

For section 1.3.2—3(a), subparagraph 2.9.3—3(2)(c)(i), paragraph 2.9.3—5(2)(c), paragraph 2.9.3—7(2)(c), sub-subparagraph 2.9.4—3(1)(a)(ii)(A), and paragraph 2.10.3—3(b), the permitted forms of minerals are:

Permitted forms of minerals

| Mineral | Permitted form |
| --- | --- |
| Calcium | Calcium carbonate |
|  | Calcium chloride |
|  | Calcium chloride, anhydrous |
|  | Calcium chloride solution |
|  | Calcium citrate |
|  | Calcium gluconate |
|  | Calcium glycerophosphate |
|  | Calcium lactate |
|  | Calcium oxide |
|  | Calcium phosphate, dibasic |
|  | Calcium phosphate, monobasic |
|  | Calcium phosphate, tribasic |
|  | Calcium sodium lactate |
|  | Calcium sulphate |
| Iron | Ferric ammonium citrate, brown or green |
|  | Ferric ammonium phosphate |
|  | Ferric citrate |
|  | Ferric hydroxide |
|  | Ferric phosphate |
|  | Ferric pyrophosphate |
|  | Ferric sodium edetate (other than for breakfast cereals as purchased or formulated supplementary food for young children) |
|  | Ferric sulphate (iron III sulphate) |
|  | Ferrous carbonate |
|  | Ferrous citrate |
|  | Ferrous fumarate |
|  | Ferrous gluconate |
|  | Ferrous lactate |
|  | Ferrous succinate |
| Iron | Ferrous sulphate (iron II sulphate) |
|  | Ferrous sulphate, dried |
|  | Iron, reduced (ferrum reductum) |
| Iodine | Potassium iodate |
|  | Potassium iodide |
|  | Sodium iodate |
|  | Sodium iodide |
| Magnesium | Magnesium carbonate |
|  | Magnesium chloride |
|  | Magnesium gluconate |
|  | Magnesium oxide |
|  | Magnesium phosphate, dibasic |
|  | Magnesium phosphate, tribasic |
|  | Magnesium sulphate |
| Phosphorus | Calcium phosphate, dibasic |
|  | Calcium phosphate, monobasic |
|  | Calcium phosphate, tribasic |
|  | Bone phosphate |
|  | Magnesium phosphate, dibasic |
|  | Magnesium phosphate, tribasic |
|  | Calcium glycerophosphate |
|  | Potassium glycerophosphate |
|  | Phosphoric acid |
|  | Potassium phosphate, dibasic |
|  | Potassium phosphate, monobasic |
|  | Sodium phosphate, dibasic |
| Selenium | Seleno methionine |
|  | Sodium selenate |
|  | Sodium selenite |
| Zinc | Zinc acetate |
|  | Zinc chloride |
|  | Zinc gluconate |
|  | Zinc lactate |
|  | Zinc oxide |
|  | Zinc sulphate |

S17—4 Permitted uses of vitamins and minerals

For sections 1.3.2—3 and 1.3.2—4, the foods are listed in the table:

Permitted uses of vitamins and minerals

| Vitamin or mineral | Maximum claim per reference quantity (maximum percentage RDI claim) | Maximum permitted amount per reference quantity | |
| --- | --- | --- | --- |
| Cereals and cereal products | | | |
| Biscuits containing not more than 200 g/kg fat and not more than 50 g/kg sugars  *Reference quantity—35 g* | | | |
| Thiamin | 0.55 mg (50%) |  | |
| Riboflavin | 0.43 mg (25%) |  | |
| Niacin | 2.5 mg (25%) |  | |
| Vitamin B6 | 0.4 mg (25%) |  | |
| Vitamin E | 2.5 mg (25%) |  | |
| Folate | 100 μg (50%) |  | |
| Calcium | 200 mg (25%) |  | |
| Iron | 3.0 mg (25%) |  | |
| Magnesium | 80 mg (25%) |  | |
| Zinc | 1.8 mg (15%) |  | |
| *Bread*  *Reference quantity—50 g* | | | |
| Thiamin | 0.55 mg (50%) |  | |
| Riboflavin | 0.43 mg (25%) |  | |
| Niacin | 2.5 mg (25%) |  | |
| Vitamin B6 | 0.4 mg (25%) |  | |
| Vitamin E | 2.5 mg (25%) |  | |
| Iron | 3.0 mg (25%) |  | |
| Magnesium | 80 mg (25%) |  | |
| Zinc | 1.8 mg (15%) |  | |
| Folate | (a) bread that contains no wheat flour— 100 μg (50%);  (b) other foods—0 |  | |
| *Breakfast cereals, as purchased*  *Reference quantity—a normal serving* | | | |
| Provitamin A forms of Vitamin A | 200 μg (25%) |  | |
| Thiamin | 0.55 mg (50%) |  | |
| Riboflavin | 0.43 mg (25%) |  | |
| Niacin | 2.5 mg (25%) |  | |
| Vitamin B6 | 0.4 mg (25%) |  | |
| Vitamin C | 10 mg (25%) |  | |
| Vitamin E | 2.5 mg (25%) |  | |
| Folate | 100 μg (50%) |  | |
| Calcium | 200 mg (25%) |  | |
| Iron – except ferric sodium edetate | 3.0 mg (25%) |  | |
| Magnesium | 80 mg (25%) |  | |
| Zinc | 1.8 mg (15%) |  | |
| *Cereal flours*  *Reference quantity—35 g* | | | |
| Thiamin | 0.55 mg (50%) |  | |
| Riboflavin | 0.43 mg (25%) |  | |
| Niacin | 2.5 mg (25%) |  | |
| Vitamin B6 | 0.4 mg (25%) |  | |
| Vitamin E | 2.5 mg (25%) |  | |
| Folate | 100 μg (50%) |  | |
| Iron | 3.0 mg (25%) |  | |
| Magnesium | 80 mg (25%) |  | |
| Zinc | 1.8 mg (15%) |  | |
| *Pasta*  *Reference quantity—the amount that is equivalent to 35 g of uncooked dried pasta* | | | |
| Thiamin | 0.55 mg (50%) |  | |
| Riboflavin | 0.43 mg (25%) |  | |
| Niacin | 2.5 mg (25%) |  | |
| Vitamin B6 | 0.4 mg (25%) |  | |
| Vitamin E | 2.5 mg (25%) |  | |
| Folate | 100 μg (50%) |  | |
| Iron | 3.0 mg (25%) |  | |
| Magnesium | 80 mg (25%) |  | |
| Zinc | 1.8 mg (15%) |  | |
| **Dairy products** | | | |
| *Dried milks*  *Reference quantity—200 mL* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| Riboflavin | 0.4 mg (25%) |  | |
| Vitamin D | 2.5 μg (25%) | 3.0 μg | |
| Calcium | 400 mg (50%) |  | |
| *Modified milks and skim milk*  *Reference quantity—200 mL* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| Vitamin D | 1.0 μg (10%) | 1.6 μg | |
| Calcium | 400 mg (50%) |  | |
| *Cheese and cheese products*  *Reference quantity—25 g* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| Calcium | 200 mg (25%) |  | |
| Phosphorus | 150 mg (15%) |  | |
| Vitamin D | 1.0 μg (10%) | 1.6 μg | |
| *Yoghurts (with or without other foods)*  *Reference quantity—150 g* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| Vitamin D | 1.0 μg (10%) | 1.6 μg | |
| Calcium | 320 mg (40%) |  | |
| *Dairy desserts containing no less than 3.1% m/m milk protein*  *Reference quantity—150 g* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| Vitamin D | 1.0 μg (10%) | 1.6 μg | |
| Calcium | 320 mg (40%) |  | |
| *Ice cream and ice confections containing no less than 3.1% m/m milk protein*  *Reference quantity—75 g* | | | |
| Calcium | 200 mg (25%) |  | |
| *Cream and cream products containing no more than 40% m/m milkfat*  *Reference quantity—30 mL* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| *Butter*  *Reference quantity—10 g* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| Vitamin D | 1.0 μg (10%) | 1.6 μg | |
| Edible oils and spreads | | | |
| *Edible oil spreads and margarine*  *Reference quantity—10 g* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| Vitamin D | 1.0 μg (10%) | 1.6 μg | |
| Vitamin E | (a) edible oil spreads and margarine containing no more than 28% total \*saturated fatty acids and trans fatty acids—3.5 mg (35%);  (b) other foods—0 |  | |
| *Edible oils*  *Reference quantity—10 g* | | | |
| Vitamin E | (a) sunflower oil and safflower oil—7.0 mg (70%);  (b) other edible oils containing no more than 28% total \*saturated fatty acids and trans fatty acids—3.0 mg (30%) |  | |
| **Extracts** | | | |
| *Extracts of meat, vegetables or yeast (including modified yeast) and foods containing no less than 800 g/kg of extracts of meat, vegetables or yeast (including modified yeast)*  *Reference quantity—5 g* | | | |
| Thiamin | 0.55 mg (50%) |  | |
| Riboflavin | 0.43 mg (25%) |  | |
| Niacin | 2.5 mg (25%) |  | |
| Vitamin B6 | 0.4 mg (25%) |  | |
| Vitamin B12 | 0.5 μg (25%) |  | |
| Folate | 100 μg (50%) |  | |
| Iron | 1.8 mg (15%) |  | |
| **Fruit juice, vegetable juice, fruit drink and fruit cordial** | | | |
| *All fruit juice and concentrated fruit juice (including tomato juice)*  *Reference quantity—200 mL* | | | |
| Calcium | 200 mg (25%) |  | |
| Folate | 100 μg (50%) |  | |
| Vitamin C | (a) blackcurrant juice—500 mg (12.5 times)  (b) guava juice—400 mg (10 times)  (c) other juice—120 mg (3 times) |  | |
| Provitamin A forms of Vitamin A | (a) mango juice—800 μg (1.1 times)  (b) pawpaw juice—300 μg (40%)  (c) other juice—200 μg (25%) |  | |
| *Vegetable juice (including tomato juice)*  *Reference quantity—200 mL* | | | |
| Vitamin C | 60 mg (1.5 times) |  | |
| Provitamin A forms of Vitamin A | 200 μg (25%) |  | |
| Folate | 100 μg (50%) |  | |
| Calcium | 200 mg (25%) |  | |
| *Fruit drinks, vegetable drinks and fruit and vegetable drinks containing at least 250 mL/L of the juice, purée or comminution of the fruit or vegetable or both; fruit drink, vegetable drink or fruit and vegetable drink concentrate which contains in a reference quantity at least 250 mL/L of the juice, purée or comminution of the fruit or vegetable, or both*  *Reference quantity—200 mL* | | | |
| Folate | refer to section 1.3.2—5 |  | |
| Vitamin C | refer to section 1.3.2—5 |  | |
| Provitamin A forms of vitamin A | refer to section 1.3.2—5 |  | |
|
| Calcium | 200 mg (25%) |  | |
| *Fruit cordial, fruit cordial base*  *Reference quantity—200 mL* | | | |
| Vitamin C | refer to section 1.3.2—5 |  | |
| **Analogues derived from legumes** | | | |
| *Beverages containing no less than 3% m/m protein derived from legumes*  *Reference quantity—200 mL* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| Thiamin | no claim permitted | 0.10 mg | |
| Riboflavin | 0.43 mg (25%) |  | |
| Vitamin B6 | no claim permitted | 0.12 mg | |
| Vitamin B12 | 0.8 μg (40%) |  | |
| Vitamin D | 1.0 μg (10%) | 1.6 μg | |
| Folate | no claim permitted | 12 μg | |
| Calcium | 240 mg (30%) |  | |
| Magnesium | no claim permitted | 22 mg | |
| Phosphorus | 200 mg (20%) |  | |
| Zinc | no claim permitted | 0.8 mg | |
| Iodine | 15 μg (10%) |  | |
| *Analogues of meat, where no less than 12% of the energy value of the food is derived from protein, and the food contains 5 g protein per serve of the food*  *Reference quantity—100 g* | | | |
| Thiamin | 0.16 mg (15%) |  | |
| Riboflavin | 0.26 mg (15%) |  | |
| Niacin | 5.0 mg (50%) |  | |
| Vitamin B6 | 0.5 mg (30%) |  | |
| Vitamin B12 | 2.0 μg (100%) |  | |
| Folate | no claim permitted | 10 μg | |
| Iron | 3.5 mg (30%) |  | |
| Magnesium | no claim permitted | 26 mg | |
| Zinc | 4.4 mg (35%) |  | |
| *Analogues of yoghurt and dairy desserts containing no less than 3.1% m/m protein derived from legumes*  *Reference quantity—150 g* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| Thiamin | no claim permitted | 0.08 mg | |
| Riboflavin | 0.43 mg (25%) |  | |
| Vitamin B6 | no claim permitted | 0.11 mg | |
| Vitamin B12 | 0.3 μg (15%) |  | |
| Vitamin D | 1.0 μg (10%) | 1.6 μg | |
| Folate | 20 μg (10%) |  | |
| Calcium | 320 mg (40%) |  | |
| Magnesium | no claim permitted | 22 mg | |
| Phosphorus | 200 mg (20%) |  | |
| Zinc | no claim permitted | 0.7 mg | |
| Iodine | 15 μg (10%) |  | |
| *Analogues of ice cream containing no less than 3.1% m/m protein derived from legumes*  *Reference quantity—75 g* | | | |
| Vitamin A | 110 μg (15%) | 125 μg | |
| Riboflavin | 0.26 mg (15%) |  | |
| Vitamin B12 | 0.2 μg (10%) |  | |
| Calcium | 200 mg (25%) |  | |
| Phosphorus | no claim permitted | 80 mg | |
| *Analogues of cheese containing no less than 15% m/m protein derived from legumes*  *Reference quantity—25 g* | | | |
| Vitamin A | 110 μg (15%) | | 125 μg |
| Riboflavin | 0.17 mg (10%) | |  |
| Vitamin B12 | 0.3 μg (15%) | |  |
| Vitamin D | 1.0 μg (10%) | | 1.6 μg |
| Calcium | 200 mg (25%) | |  |
| Phosphorus | 150 mg (15%) | |  |
| Zinc | no claim permitted | | 1.0 mg |
| Iodine | no claim permitted | | 10 μg |
| **Composite products** | | | |
| *Soups, prepared for consumption in accordance with directions*  *Reference quantity—200 mL* | | | |
| Calcium | 200 mg (25%) | |  |
| **Analogues derived from cereals** | | | |
| *Beverages containing no less than 0.3% m/m protein derived from cereals*  *Reference quantity—200 mL* | | | |
| Vitamin A | 110 μg (15%) | | 125 μg |
| Thiamin | no claim permitted | | 0.10 mg |
| Riboflavin | 0.43 mg (25%) | |  |
| Vitamin B6 | no claim permitted | | 0.12 mg |
| Vitamin B12 | 0.8 μg (40%) | |  |
| Vitamin D | 1.0 μg (10%) | | 1.6 μg |
| Folate | no claim permitted | | 12 μg |
| Calcium | 240 mg (30%) | |  |
| Magnesium | no claim permitted | | 22 mg |
| Phosphorus | 200 mg (20%) | |  |
| Zinc | no claim permitted | | 0.8 mg |
| Iodine | 15 μg (10%) | |  |
| **Formulated beverages** | | | |
| *Formulated beverages*  *Reference quantity—600 mL* | | | |
| Folate | 50 μg (25%) | |  |
| Vitamin C | 40 mg (100%) | |  |
| Provitamin A forms of Vitamin A | 200 μg (25%) | |  |
| Niacin | 2.5 mg (25%) | |  |
| Thiamin | 0.28 mg (25%) | |  |
| Riboflavin | 0.43 mg (25%) | |  |
| Calcium | 200 mg (25%) | |  |
| Iron | 3.0 mg (25%) | |  |
| Magnesium | 80 mg (25%) | |  |
| Vitamin B6 | 0.4 mg (25%) | |  |
| Vitamin B12 | 0.5 μg (25%) | |  |
| Vitamin D | 2.5 μg (25%) | |  |
| Vitamin E | 2.5 mg (25%) | |  |
| Iodine | 38 μg (25%) | |  |
| Pantothenic acid | 1.3 mg (25%) | |  |
| Selenium | 17.5 μg (25%) | |  |

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