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 which claims may be made under subsections 2.9.3—6(3) and 2.9.3—8(3).

***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 sugarsReference 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%) |  |
| BreadReference 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 purchasedReference 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 floursReference 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%) |  |
| PastaReference 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 milksReference 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 milkReference 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 productsReference 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 proteinReference 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 proteinReference quantity—75 g |
| Calcium | 200 mg (25%) |  |
| Cream and cream products containing no more than 40% m/m milkfatReference quantity—30 mL |
| Vitamin A | 110 μg (15%) | 125 μg |
| ButterReference 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 margarineReference 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 oilsReference 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 bothReference 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 baseReference 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 legumesReference 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 foodReference 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 legumesReference 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 legumesReference 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 legumesReference 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 directionsReference quantity—200 mL  |
| Calcium | 200 mg (25%) |  |
| **Analogues derived from cereals, nuts, seeds, or a combination of those ingredients** |
| Beverages containing no less than 0.3% m/m protein derived from cereals, nuts, seeds, or a combination of those ingredientsReference 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 beveragesReference 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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Amendment History

The Amendment History provides information about each amendment to the Standard. The information includes commencement or cessation information for relevant amendments.

These amendments are made under section 92 of the *Food Standards Australia New Zealand Act 1991* unless otherwise indicated. Amendments do not have a specific date for cessation unless indicated as such.

About this compilation

This is a compilation of Schedule 17 as in force on **1 March 2016** (up to Amendment No. 161). It includes any commenced amendment affecting the compilation to that date.

Prepared by Food Standards Australia New Zealand on **1 March 2016.**

Uncommenced amendments or provisions ceasing to have effect

To assist stakeholders, the effect of any uncommenced amendments or provisions which will cease to have effect, may be reflected in the Standard as shaded boxed text with the relevant commencement or cessation date. These amendments will be reflected in a compilation registered on the Federal Register of Legislative Instruments including or omitting those amendments and provided in the Amendment History once the date is passed.

The following abbreviations may be used in the table below:

ad = added or inserted am = amended

exp = expired or ceased to have effect rep = repealed

rs = repealed and substituted

**Schedule 17** was published in the Food Standards Gazette No. FSC96 on 10 April 2015 as part of Amendment 154 (F2015L00449 –- 1 April 2015) and has since been amended as follows:

| Section affected | A’ment No. | FRLI registrationGazette  | Commencement(Cessation) | How affected | Description of amendment |
| --- | --- | --- | --- | --- | --- |
| Sched heading | 157 | F2015L013741 Sept 2015FSC993 Sept 2015 | 1 March 2016 | am | Correction to cross-references in Note 1. |
| table to S17—4 | 161 | F2016L0011517 Feb 2016FSC10322 Feb 2016 | 1 March 2016 | rs | Entry for beverages containing no less than 0.3% m/m protein derived from cereals to include references to nuts, seeds or a combination of those ingredients. |