Schedule 29 Special purpose foods

***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.

 Special purpose foods are regulated by Part 9 of Chapter 2, which contains Standard 2.9.1, Standard 2.9.2, Standard 2.9.3, Standard 2.9.4, Standard 2.9.5 and Standard 2.9.6. This Standard prescribes information for these standards.

***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.

S29—1 Name

 This Standard is *Australia New Zealand Food Standards Code* – Schedule 29 – Special purpose foods.

 ***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.

S29—2 Infant formula product—calculation of energy

 (1) For paragraph 2.9.1—4(2)(a), the energy content of infant formula product must be calculated using:

 (a) the energy contributions of the following \*components only:

 (i) fat; and

 (ii) protein; and

 (iii) carbohydrate; and

 (b) the relevant energy factors set out in section S11—2.

 (2) The energy content of infant formula product must be expressed in kilojoules.

S29—3 Infant formula product—calculation of protein content

 For paragraph 2.9.1—4(2)(b), the protein content (***PC***) of infant formula product must be calculated in accordance with the following equation:

 

 where:

***NC*** is the nitrogen content of the infant formula product.

***F*** is:

 (a) for milk proteins and their partial protein hydrolysates—6.38; or

 (b) otherwise—6.25.

S29—4 Infant formula product—calculation of potential renal solute load

 (1) For paragraph 2.9.1—4(2)(c), the potential renal solute load (***PRSL***), in mOsm/100 kJ, must be calculated in accordance with the following equation:

 

where:

***Na*** is the amount of sodium in the infant formula product in mg/100 kJ.

***Cl*** is the amount of chloride in the infant formula product in mg/100 kJ.

***K*** is the amount of potassium in the infant formula product in mg/100 kJ.

***Pavail***is given by the formula set out in subsection (2).

***N*** is the amount of nitrogen in the infant formula product in mg/100 kJ.

 (2) In subsection (1), ***Pavail*** is calculated in accordance with the following equation:

 

where:

***Pmbf*** is the amount of phosphorus in the milk-based formula.

***Psbf*** is the amount of phosphorus in the soy-based formula.

S29—5 Infant formula products—substances permitted as nutritive substances

 For section 2.9.1—5, the table is:

Infant formula products—substances permitted for use as nutritive substances

| Column 1 | Column 2 | Column 3 | Column 4 |
| --- | --- | --- | --- |
| Substance | Permitted forms | Minimum amount per 100 kJ | Maximum amount per 100 kJ |
| Adenosine-5′-monophosphate | Adenosine-5′- monophosphate | 0.14 mg | 0.38 mg |
| L-carnitine | L-carnitine | 0.21 mg  | 0.8 mg |
| Choline | Choline chloride | 1.7 mg  | 7.1 mg |
|  | Choline bitartrate |  |  |
| Cytidine-5′-monophosphate | Cytidine-5′-monophosphate | 0.22 mg  | 0.6 mg |
| Guanosine-5′-monophosphate | Guanosine-5′-monophosphate | 0.04 mg  | 0.12 mg |
|   | Guanosine-5′-monophosphate sodium salt |  |  |
| Inosine-5′-monophosphate | Inosine-5′-monophosphate | 0.08 mg  | 0.24 mg |
|  | Inosine-5′-monophosphate sodium salt |  |   |
| Lutein | Lutein from *Tagetes erecta L.* | 1.5 µg | 5 µg |
| Inositol | Inositol | 1.0 mg | 9.5 mg |
| Taurine | Taurine | 0.8 mg  | 3 mg |
| Uridine-5′-monophosphate | Uridine-5′-monophosphate sodium salt | 0.13 mg | 0.42 mg |

S29—6 Infant formula products—L-amino acids that must be present in infant formula and follow-on formula

 For section 2.9.1—10, the table is:

L-amino acids that must be present in infant formula and follow-on formula

| L-amino acid | Minimum amount per 100 kJ |
| --- | --- |
| Histidine | 10 mg |
| Isoleucine | 21 mg |
| Leucine | 42 mg |
| Lysine | 30 mg |
| Cysteine & cysteine total | 6 mg |
| Cysteine, cystine & methionine total | 19 mg |
| Phenylalanine | 17 mg |
| Phenylalanine & tyrosine total | 32 mg |
| Threonine | 19 mg |
| Tryptophan | 7 mg |
| Valine | 25 mg |

S29—7 Permitted forms of vitamins, minerals and electrolytes in infant formula products, food for infants and food for special medical purposes

 For sections 2.9.1—12, 2.9.2—4, 2.9.2—5, 2.9.2—6 and 2.9.5—6, the table is:

Permitted forms of vitamins, minerals and electrolytes in infant formula products, etc

| Vitamin, mineral or electrolyte | Permitted forms |
| --- | --- |
| Vitamin A |  |
|  Retinol forms | vitamin A (retinol) |
|  | vitamin A acetate (retinyl acetate) |
|  | vitamin A palmitate (retinyl palmitate)  |
|  | retinyl propionate |
|  Provitamin A forms | beta-carotene |
| Vitamin C | L-ascorbic acid |
|  | L-ascorbyl palmitate |
|  | calcium ascorbate |
|  | potassium ascorbate  |
|  | sodium ascorbate |
| Vitamin D | vitamin D2 (ergocalciferol) |
|  | vitamin D3 (cholecalciferol) |
|  | vitamin D (cholecalciferol-cholesterol) |
| Thiamin | thiamin hydrochloride |
|  | thiamin mononitrate |
| Riboflavin | riboflavin  |
|  | riboflavin-5′-phosphate, sodium |
| Niacin | niacinamide (nicotinamide) |
| Vitamin B6 | pyridoxine hydrochloride |
|  | pyridoxine-5′-phosphate |
| Folate | folic acid |
| Pantothenic acid | calcium pantothenate |
|  | dexpanthenol |
| Vitamin B12 | cyanocobalamin |
|  | hydroxocobalamin |
| Biotin | d-biotin |
| Vitamin E  | dl-α-tocopherol |
|  | d-α-tocopherol concentrate  |
|  | tocopherols concentrate, mixed  |
|  | d-α-tocopheryl acetate |
|  | dl-α-tocopheryl acetate  |
|  | d-α-tocopheryl acid succinate  |
|  | dl-α-tocopheryl succinate |
| Vitamin K | Vitamin K1 as phylloquinone (phytonadione) |
| Calcium | calcium carbonate |
|  | calcium chloride |
|  | calcium citrate |
|  | calcium gluconate |
|  | calcium glycerophosphate |
|  | calcium hydroxide |
|  | calcium lactate |
|  | calcium oxide |
|  | calcium phosphate, dibasic |
|  | calcium phosphate, monobasic |
|  | calcium phosphate, tribasic |
|  | calcium sulphate |
| Chloride | calcium chloride |
|  | magnesium chloride |
|  | potassium chloride |
|  | sodium chloride |
| Chromium  | chromium sulphate |
| Copper | copper gluconate |
|  | cupric sulphate |
|  | cupric citrate |
| Iodine | potassium iodate |
|  | potassium iodide |
|  | sodium iodide |
| Iron  | ferric ammonium citrate  |
|  | ferric pyrophosphate  |
|  | ferrous citrate  |
|  | ferrous fumarate |
|  | ferrous gluconate |
|  | ferrous lactate |
|  | ferrous succinate |
|  | ferrous sulphate |
| Magnesium | magnesium carbonate |
|  | magnesium chloride |
|  | magnesium gluconate |
|  | magnesium oxide |
|  | magnesium phosphate, dibasic |
|  | magnesium phosphate, tribasic |
|  | magnesium sulphate |
| Manganese | manganese chloride |
|  | manganese gluconate |
|  | manganese sulphate |
|  | manganese carbonate |
|  | manganese citrate |
| Molybdenum | sodium molybdate VI |
| Phosphorus | calcium glycerophosphate |
|  | calcium phosphate, dibasic |
|  | calcium phosphate, monobasic |
|  | calcium phosphate, tribasic |
|  | magnesium phosphate, dibasic |
|  | potassium phosphate, dibasic |
|  | potassium phosphate, monobasic |
|  | potassium phosphate, tribasic  |
|  | sodium phosphate, dibasic |
|  | sodium phosphate, monobasic |
|  | sodium phosphate, tribasic |
| Potassium | potassium bicarbonate |
|  | potassium carbonate |
|  | potassium chloride |
|  | potassium citrate |
|  | potassium glycerophosphate |
|  | potassium gluconate |
|  | potassium hydroxide |
|  | potassium phosphate, dibasic |
|  | potassium phosphate, monobasic |
|  | potassium phosphate, tribasic |
| Selenium | seleno methionine |
|  | sodium selenate |
|  | sodium selenite |
| Sodium | sodium bicarbonate |
|  | sodium carbonate |
|  | sodium chloride |
|  | sodium chloride iodised |
|  | sodium citrate |
|  | sodium gluconate |
|  | sodium hydroxide |
|  | sodium iodide |
|  | sodium lactate |
|  | sodium phosphate, dibasic |
|  | sodium phosphate, monobasic |
|  | sodium phosphate, tribasic |
|  | sodium sulphate |
|  | sodium tartrate |
| Zinc | zinc acetate |
|  | zinc chloride |
|  | zinc gluconate |
|  | zinc oxide |
|  | zinc sulphate |

S29—8 Infant formula products—limits on fatty acids that may be present in infant formula and follow-on formula

 For section 2.9.1—11, the table is:

Limits on fatty acids that may be present in infant formula and follow-on formula

|  |  |
| --- | --- |
| Fatty acid | Limits |
| Essential fatty acids |  |
| Linoleic acid (18:2) | no less than 9% of the total fatty acids |
|  | no more than 26% of the total fatty acids |
| α-Linolenic acid (18:3) | no less than 1.1% of the total fatty acids |
|  | no more than 4% of the total fatty acids |
| Long chain polyunsaturated fatty acids |  |
| Long chain omega 6 series fatty acids (C> = 20) | no more than 2% of the total fatty acids |
| Arachidonic acid (20:4) | no more than 1% of the total fatty acids |
| Long chain omega 3 series fatty acids (C> = 20) | no more than 1% of the total fatty acids |
| Total *trans* fatty acids | no more than 4% of the total fatty acids |
| Erucic acid (22:1) | no more than 1% of the total fatty acids |

S29—9 Required vitamins, minerals and electrolytes in infant formula and follow-on formula

 For section 2.9.1—12, the table is:

Required vitamins, minerals and electrolytes in infant formula and follow-on formula

| Column 1 | Column 2 | Column 3 |
| --- | --- | --- |
| Vitamin, mineral or electrolyte | Minimum amount per 100 kJ | Maximum amount per 100 kJ |
| Vitamins |  |  |
| Vitamin A | 14 μg | 43 μg |
| Vitamin D | 0.25 μg | 0.63 μg |
| Vitamin C | 1.7 mg |  |
| Thiamin | 10 μg |  |
| Riboflavin | 14 μg |  |
| Preformed Niacin  | 130 μg |  |
| Vitamin B6 | 9 μg | 36 μg |
| Folate | 2 μg |  |
| Pantothenic acid | 70 μg |  |
| Vitamin B12 | 0.025 μg |  |
| Biotin | 0.36 μg |  |
| Vitamin E  | 0.11 mg | 1.1 mg |
| Vitamin K | 1 μg |  |
| Minerals |  |  |
| Calcium | 12 mg |  |
| Phosphorus | 6 mg | 25 mg |
| Magnesium | 1.2 mg | 4.0 mg |
| Iron | 0.2 mg | 0.5 mg |
| Iodine | 1.2 μg | 10 μg |
| Copper | 14 μg | 43 μg |
| Zinc | 0.12 mg | 0.43 mg |
| Manganese | 0.24 μg | 24.0 μg |
| Selenium | 0.25 μg | 1.19 μg |
| Electrolytes |  |  |
| Chloride | 12 mg | 35 mg |
| Sodium | 5 mg | 15 mg |
| Potassium | 20 mg | 50 mg |

S29—10 Guidelines for infant formula products

Guideline for maximum amount of vitamins and minerals in infant formula products

 (1) It is recommended that the quantities specified in the table to this section be observed as the maximum levels of vitamins and minerals in infant formula product.

Guideline for maximum amount of vitamins and minerals in infant formula products

| Vitamin or mineral | Recommended maximum amount per 100 kJ |
| --- | --- |
| Vitamins |  |
| Vitamin C | 5.4 mg |
| Thiamin | 48 μg |
| Riboflavin | 86 μg |
| Preformed Niacin  | 480 μg |
| Folate | 8.0 μg |
| Pantothenic acid | 360 μg |
| Vitamin B12 | 0.17 μg |
| Vitamin K | 5.0 μg |
| Biotin | 2.7 μg |
| Minerals |  |
| Calcium | 33 mg |
| Phosphorus | 22 mg |
| Manganese | 7.2 μg, for infant formula products specifically formulated to satisfy particular metabolic, immunological, renal, hepatic or malabsorptive conditions |
| Chromium | 2.0 μg |
| Molybdenum | 3 μg |

Guideline on advice regarding additional vitamin and mineral supplementation

 (2) Manufacturers are recommended to provide an advice in the label on a package of infant formula product to the effect that consumption of vitamin or mineral preparations is not necessary.

Nutrition information table

 (3) It is recommended that the nutrition information table be set out in the format specified in the table to this section.

|  |
| --- |
| **NUTRITION INFORMATION**  |
|  | Average amount per 100 mL made up formula (see Note 1) | Average amount per 100 g of powder (or per 100 mL for liquid concentrate) (see Note 2) |
| Energy | kJ | kJ |
| Protein | g | g |
| Fat | g | g |
| Carbohydrate | g | g |
| Vitamin A | μg | μg |
| Vitamin B6 | μg | μg |
| Vitamin B12 | μg | μg |
| Vitamin C | mg | mg |
| Vitamin D | μg | μg |
| Vitamin E | μg | μg |
| Vitamin K | μg | μg |
| Biotin | μg | μg |
| Niacin | mg | mg |
| Folate | μg | μg |
| Pantothenic acid | μg | μg |
| Riboflavin | μg | μg |
| Thiamin | μg | μg |
|  |  |  |
| Calcium | mg | mg |
| Copper | μg | μg |
| Iodine | μg | μg |
| Iron | mg | mg |
| Magnesium | mg | mg |
| Manganese | μg | μg |
| Phosphorus | mg | mg |
| Selenium | μg | μg |
| Zinc | mg | mg |
|  |  |  |
| Chloride  | mg | mg |
| Potassium | mg | mg |
| Sodium | mg | mg |
|  |  |  |
| (insert any other substance used as a nutritive substance or inulin-type fructans and galacto-oligosaccharides to be declared) | g, mg, μg | g, mg, μg |

***Note 1***Delete the words ‘made up formula’ in the case of formulas sold in ‘ready to drink’ form.

 ***Note 2*** Delete this column in the case of formulas sold in ‘ready to drink’ form.

S29—11 Food for infants—claims that can be made about vitamins and minerals added to cereal-based food for infants

 For section 2.9.2—10, the table is:

Claims that can be made about vitamins and minerals added to cereal-based food for infants

|  |  |
| --- | --- |
| Vitamin or mineral | Maximum claim per serve |
| Thiamin (mg) | 15% RDI |
| Niacin (mg) | 15% RDI |
| Folate (μg) | 10% RDI |
| Vitamin B6 (mg) | 10% RDI |
| Vitamin C (mg) | 10% RDI |
| Magnesium (mg) | 15% RDI |

S29—12 Formulated meal replacements—vitamins and minerals that must be present in formulated meal replacements

 (1) For sections 2.9.3—3, 2.9.3—4 and 2.9.6—4, the table is set out below.

 (2) In the table, the amounts set out in columns 2 and 3 are for a 1-meal serving, and are expressed as a proportion of the RDI.

Vitamins and minerals that must be present in formulated meal replacements

| Column 1 | Column 2 | Column 3 |
| --- | --- | --- |
| Vitamin or mineral | Maximum amount | Maximum claim |
| Vitamin A | 300 μg (40%) | 300 μg (40%) |
| Thiamin | No amount set | 0.55 mg (50%) |
| Riboflavin | No amount set | 0.85 mg (50%) |
| Niacin | No amount set | 5 mg (50%) |
| Folate | No amount set | 100 μg (50%) |
| Vitamin B6 | No amount set | 0.8 mg (50%) |
| Vitamin B12 | No amount set | 1 μg (50%) |
| Vitamin C | No amount set | 20 mg (50%) |
| Vitamin D | 5.0μg (50%) | 5 μg (50%) |
| Vitamin E | No amount set | 5 mg (50%) |
| Calcium | No amount set | 400 mg (50%) |
| Iodine | 75 μg (50%) | 75 μg (50%) |
| Iron | No amount set | 4.8 mg (40%) |
| Magnesium | No amount set | 160 mg (50%) |
| Phosphorus | No amount set | 500 mg (50%) |
| Zinc | No amount set | 4.8 mg (40%) |

S29—13 Vitamins and minerals that may be added to formulated meal replacements

 (1) For sections 2.9.3—3, 2.9.3—4 and 2.9.6—4, the table is set out below.

 (2) In the table, the amounts set out in columns 2 and 3 are for a 1-meal serving, and are expressed as a proportion of the \*ESADDI unless stated otherwise.

Vitamins and minerals that may be added to formulated meal replacements

| Column 1 | Column 2 | Column 3 |
| --- | --- | --- |
| Vitamin or mineral | Maximum amount | Maximum claim |
| Biotin | No amount set | 5 μg (17%) |
| Pantothenic acid | No amount set | 0.8 mg (17%) |
| Vitamin K | No amount set | 40 μg (50%) |
| Chromium: |  |  |
|  inorganic | 34 μg (17%) | 34 μg (17%) |
|  organic | 16 μg (8%) | no claim permitted |
| Copper: |  |  |
|  inorganic | 0.50 mg (17%) | 0.50 mg (17%) |
|  organic | 0.24 mg (8%) | no claim permitted |
| Manganese: |  |  |
|  inorganic | 0.85 mg (17%) | 0.85 mg (17%) |
|  organic | 0.4 mg (8%) | no claim permitted |
| Molybdenum: |  |  |
|  inorganic | 42.5 μg (17%) | 42.5 μg (17%) |
|  organic | 20 μg (8%) | no claim permitted |
| Selenium: |  |  |
|  inorganic | 17.5 μg (25% RDI) | 17.5 μg (25% RDI) |
|  organic | 9 μg (13% RDI) | 9 μg (13% RDI) |

S29—14 Vitamins and minerals that may be added to formulated supplementary foods

 (1) For sections 2.9.3—5 and 2.9.3—6, the table is set out below.

 (2) In the table, the amounts set out in Columns 2 and 3 are for a serving, and are expressed as a proportion of the RDI.

Vitamins and minerals that may be added to formulated supplementary foods

| Column 1 | Column 2 | Column 3 |
| --- | --- | --- |
| Vitamin or mineral | Maximum amount | Maximum claim |
| Vitamins |  |  |
| Vitamin A | 340 μg (45%) | 265 μg (35%) |
| Thiamin | No amount set | 0.55 mg (50%) |
| Riboflavin | No amount set | 0.85 mg (50%) |
| Niacin | No amount set | 5 mg (50%) |
| Folate | No amount set | 100 μg (50%) |
| Vitamin B6 | No amount set | 0.8 mg (50%) |
| Vitamin B12  | No amount set | 1 μg (50%) |
| Vitamin C | No amount set | 20 mg (50%) |
| Vitamin D | 5 μg (50%) | 5 μg (50%) |
| Vitamin E | No amount set | 5 mg (50%) |
| Minerals |  |  |
| Calcium | No amount set | 400 mg (50%) |
| Iodine | 75 μg (50%) | 75 μg (50%) |
| Iron | No amount set | 6 mg (50%) |
| Magnesium | No amount set | 130 mg (40%) |
| Phosphorus | No amount set | 500 mg (50%) |
| Zinc | No amount set | 3 mg (25%) |

S29—15 Vitamins and minerals that may be added to formulated supplementary food for young children

 (1) For sections 2.9.3—7 and 2.9.3—8, the table is set out below.

 (2) In the table, the amounts set out in Columns 2 and 3 are for a serving, and are expressed as a proportion of the RDI.

Vitamins and minerals that may be added to formulated supplementary food for young children

|  |  |  |
| --- | --- | --- |
| Column 1 | Column 2 | Column 3 |
| Vitamin or mineral | Maximum amount (as percentage of RDI) | Maximum claim (as percentage of RDI) |
| Vitamins |  |  |
| Vitamin A | 135 μg (45%) | 105 μg (35%) |
| Thiamin | No amount set | 0.25 mg (50%) |
| Riboflavin | No amount set | 0.4 mg (50%) |
| Niacin | No amount set | 2.5 mg (50%) |
| Folate | No amount set | 50 μg (50%) |
| Vitamin B6 | No amount set | 0.35 mg (50%) |
| Vitamin B12  | No amount set | 0.5 μg (50%) |
| Vitamin C | No amount set | 15 mg (50%) |
| Vitamin D | 2.5 μg (50%) | 2.5 μg (50%) |
| Vitamin E | No amount set | 2.5 mg (50%) |
| Minerals |  |  |
| Calcium | No amount set | 350 mg (50%) |
| Iodine | 70 μg (100%) | 35 μg (50%) |
| Iron | No amount set | 3.0 mg (50%) |
| Magnesium | No amount set | 32 mg (40%) |
| Phosphorus | No amount set | 250 mg (50%) |
| Zinc | No amount set | 1.1 mg (25%) |

S29—16 Vitamins and minerals that may be added to formulated supplementary sports foods

 (1) For section 2.9.4—3, the table is set out below.

 (2) In the table, the amounts set out in Columns 2 and 3 are for a \*one-day quantity.

Vitamins and minerals that may be added to formulated supplementary sports foods

| Column 1 | Column 2 | Column 3 |
| --- | --- | --- |
| Vitamin or mineral | Maximum amount | Maximum claim |
| Vitamins |  |  |
| Vitamin A | 375 μg | 375 μg |
| Thiamin |  | 2.2 mg |
| Riboflavin |  | 3.4 mg |
| Niacin |  | 20 mg |
| Folate |  | 400 μg |
| Vitamin B6 |  | 3.2 mg |
| Vitamin B12 |  | 4 μg |
| Vitamin C |  | 80 mg |
| Vitamin D | 2.5 μg | 2.5 μg |
| Vitamin E |  | 20 mg |
| Biotin |  | 50 μg |
| Pantothenic acid |  | 3.5 mg |
| Minerals |  |  |
| Calcium  |  | 1 600 mg |
| Chromium: |  |  |
|  inorganic forms | 100 μg | 100 μg |
|  organic forms | 50 μg | 50 μg |
| Copper: |  |  |
|  inorganic forms | 1.5 mg | 1.5 mg |
|  organic forms | 750 μg | 750 μg |
| Iodine | 75 μg | 75 μg |
| Iron |  | 12 mg |
| Magnesium |  | 640 mg |
| Manganese: |  |  |
|  inorganic forms |  | 2.5 mg |
|  organic forms |  | 1.25 mg |
| Molybdenum: |  |  |
|  inorganic forms |  | 125 μg |
|  organic forms |  | 62.5 μg |
| Phosphorus |  | 1 000 mg |
| Selenium: |  |  |
|  inorganic forms | 52 μg | 52 μg |
|  organic forms | 26 μg | 26 μg |
| Zinc |  | 12 mg |

S29—17 Additional permitted forms for vitamins and minerals in formulated supplementary sports foods and in formulated meal replacements

 For sections 2.9.3—3 and 2.9.4—3, the table is:

Additional permitted forms

| Column 1 | Column 2 |
| --- | --- |
| Vitamin or mineral | Permitted forms |
| Biotin | d-biotin |
| Pantothenic acid | d-sodium pantothenate |
| Calcium | Calcium hydroxide |
| Chromium: |  |
|  inorganic forms | Chromic chloride |
|  organic forms | High chromium yeast |
|  | Chromium picolinate |
|  | Chromium nicotinate |
|  | Chromium aspartate |
| Copper: |  |
|  inorganic forms | Cupric carbonate |
|  | Cupric sulphate |
|  organic forms | Copper gluconate |
|  | Copper-lysine complex |
|  | Cupric citrate |
| Magnesium | Magnesium citrate |
|  | Magnesium hydroxide |
| Manganese: |  |
|  inorganic forms | Manganese carbonate |
|  | Manganese chloride |
|  | Manganese sulphate |
|  organic forms | Manganese citrate |
| Molybdenum: |  |
|  inorganic forms | Sodium molybdate |
|  organic forms | High molybdenum yeast |
| Phosphorus | Magnesium phosphate, monobasic |
|  | Potassium phosphate, tribasic |
|  | Sodium phosphate, monobasic |
|  | Sodium phosphate, tribasic |
|  | Phosphoric acid |

S29—18 Amino acids that may be added to formulated supplementary sports food

 For paragraph 2.9.4—3(1)(b), the table is.

Amino acids that may be added to formulated supplementary sports food

| Column 1 | Column 2 |
| --- | --- |
| Amino acid | Maximum amount that may be added to a one-day quantity |
| L-Alanine | 1 200 mg |
| L-Arginine | 1 100 mg |
| L-Aspartic acid | 600 mg |
| L-Cysteine | 440 mg |
| L-Glutamine | 1 900 mg |
| L-Glutamic acid | 1 600 mg |
| Glycine | 1 500 mg |
| L-Histidine | 420 mg |
| L-Isoleucine | 350 mg |
| L-Leucine | 490 mg |
| L-Lysine | 420 mg |
| L-Methionine | 180 mg |
| L-Ornithine | 360 mg |
| L-Phenylalanine | 490 mg |
| L-Proline  | 1 100 mg |
| L-Serine | 1 400 mg |
| L-Taurine | 60 mg |
| L-Threonine | 245 mg |
| L-Tyrosine | 400 mg |
| L-Tryptophan | 100 mg |
| L-Valine | 350 mg |

S29—19 Substances that may be used as nutritive substances in formulated supplementary sports food

 For paragraph 2.9.4—3(1)(c), the table is:

Substances that may be used as nutritive substances in formulated supplementary sports food

|  |  |
| --- | --- |
| Column 1 | Column 2 |
| Substance  | Maximum amount that may be added to a one-day quantity |
| L-carnitine | 2g |
| Choline | 10 mg |
| Inosine | 10 mg |
| Ubiquinones | 15 mg |
| Creatine | 3 g |
| Gamma-oryzinol | 25 mg |

S29—20 Substances that may be added to food for special medical purposes

 For section 2.9.5—6, the table is.

Substances that may be added to food for special medical purposes

| Column 1 | Column 2 |
| --- | --- |
| Substance | Permitted forms |
| Vitamins |  |
| Niacin | Nicotinic acid |
| Vitamin B6 | Pyridoxine dipalmitate |
| Folate | Calcium L-methylfolate |
| Vitamin E | D-alpha-tocopherol |
|  | D-alpha-tocopheryl polyethylene glycol-1000 succinate (TPGS) |
| Pantothenic acid | Sodium pantothenate |
|  | D-panthenol |
|  | DL-panthenol |
| Minerals and electrolytes |  |
| Boron | Sodium borate |
|  | Boric acid |
| Calcium | Calcium bisglycinate |
|  | Calcium citrate malate |
|  | Calcium malate |
|  | Calcium L-pidolate |
| Chloride | Choline chloride |
|  | Sodium chloride, iodised |
|  | Hydrochloric acid |
| Chromium | Chromium chloride |
|  | Chromium picolinate  |
|  | Chromium potassium sulphate |
| Copper | Copper-lysine complex |
|  | Cupric carbonate |
| Fluoride | Potassium fluoride |
|  | Sodium fluoride |
| Iodine | Sodium iodate |
| Iron | Carbonyl iron |
|  | Electrolytic iron |
|  | Ferric citrate |
|  | Ferric gluconate |
|  | Ferric orthophosphate |
|  | Ferric pyrophosphate, sodium |
|  | Ferric saccharate |
|  | Ferric sodium diphosphate |
|  | Ferrous bisglycinate |
|  | Ferrous carbonate |
|  | Ferrous carbonate, stabilised |
|  | Ferrous L-pidolate |
|  | Iron, reduced (ferrum reductum) |
| Magnesium | Magnesium acetate |
|  | Magnesium L-aspartate |
|  | Magnesium bisglycinate |
|  | Magnesium citrate |
|  | Magnesium glycerophosphate |
|  | Magnesium hydroxide |
|  | Magnesium hydroxide carbonate |
|  | Magnesium lactate |
|  | Magnesium phosphate, monobasic |
|  | Magnesium L-pidolate |
|  | Magnesium potassium citrate |
| Manganese | Manganese glycerophosphate |
| Molybdenum | Ammonium molybdate |
| Potassium | Potassium glycerophosphate |
|  | Potassium lactate |
|  | Potassium L-pidolate |
| Selenium | Selenium enriched yeast |
|  | Sodium hydrogen selenite |
|  | Sodium selenate |
| Zinc | Zinc bisglycinate |
|  | Zinc carbonate |
|  | Zinc citrate |
|  | Zinc lactate |
| Other substances |  |
| Amino acids | Sodium, potassium, calcium, magnesium salts of single amino acids listed in this section |
|   | Hydrochlorides of single amino acids listed in this section |
|  | L-alanine |
|  | L-arginine |
|  | L-arginine acetate |
|  | L-asparagine |
|  | L-aspartic acid |
|  | L-citrulline |
|  | L-cysteine |
|  | L-cystine |
|  | L-glutamic acid |
|  | L-glutamine |
|  | Glycine |
|  | L-histidine |
|  | L-isoleucine |
|  | L-leucine |
|  | L-lysine |
|  | L-lysine acetate |
|  | L-methionine |
|  | L-ornithine |
|  | L-phenylalanine |
|  | L-proline |
|  | L-serine |
|  | L-threonine |
|  | L-tyrosine |
|  | L-tryptophan |
|  | L-valine |
|  | L-arginine-L-aspartate |
|  | L-lysine-L-aspartate |
|  | L-lysine-L-glutamate |
|  | N-acetyl-L-methionine |
| Carnitine | L-carnitine |
|  | L-carnitine hydrochloride |
|  | L-carnitine L-tartrate |
| Choline | Choline |
|  | Choline bitartrate |
|  | Choline chloride |
|  | Choline citrate |
|  | Choline hydrogen tartrate |
| Inositol | Inositol |
| Nucleotides | Adenosine-5′-monophosphate |
|  | Adenosine-5′-monophosphate sodium salt |
|  | Cytidine-5′-monophosphate |
|  | Cytidine-5′-monophosphate sodium salt |
|  | Guanosine-5′-monophosphate |
|  | Guanosine-5′-monophosphate sodium salt |
|  | Inosine-5′-monophosphate |
|  | Inosine-5′-monophosphate sodium salt |
|  | Uridine-5′-monophosphate |
|  | Uridine-5′-monophosphate sodium salt |
| Taurine | Taurine |

S29—21 Amounts of nutrients for food for special medical purposes represented as a sole source of nutrition

 For section, 2.9.5—7, the table is:

Amounts of nutrients for food for special medical purposes represented as a sole source of nutrition

| Column 1 | Column 2 | Column 3 |
| --- | --- | --- |
| Nutrient | Minimum amount per MJ | Maximum amount per MJ |
| **Vitamins** |  |  |
| Vitamin A | 84 µg retinol equivalents1 | 430 µg retinol equivalents1 |
| Thiamin | 0.15 mg | No maximum set |
| Riboflavin | 0.2 mg | No maximum set |
| Niacin | 2.2 mg niacin equivalents2 | No maximum set |
| Vitamin B6 | 0.2 mg | 1.2 mg |
| Folate | 25 µg | No maximum set |
| Vitamin B12 | 0.17 µg | No maximum set |
| Vitamin C | 5.4 mg | No maximum set |
| Vitamin D |  |  |
| (a) for products intended for children aged 1–10 years— | 1.2 µg | 7.5 µg |
| (b) otherwise— | 1.2 µg | 6.5 µg |
| Vitamin E  | 1 mg alpha-tocopherolequivalents3 | No maximum set |
| Biotin | 1.8 µg | No maximum set |
| Pantothenic Acid | 0.35 mg | No maximum set |
| Vitamin K | 8.5 µg | No maximum set |
| **Minerals** |  |  |
| Calcium |  |  |
| (a) for products intended for children aged 1–10 years— | 120 mg | 600 mg |
| (b) otherwise— | 84 mg | 420 mg |
| Magnesium | 18 mg | No maximum set |
| Iron | 1.2 mg | No maximum set |
| Phosphorus | 72 mg | No maximum set |
| Zinc | 1.2 mg | 3.6 mg |
| Manganese | 0.12 mg | 1.2 mg |
| Copper | 0.15 mg | 1.25 mg |
| Iodine | 15.5 µg | 84 µg |
| Chromium | 3 µg | No maximum set |
| Molybdenum | 7 µg | No maximum set |
| Selenium | 6 µg | 25 µg |
| **Electrolytes** |  |  |
| Sodium | 72 mg | No maximum set |
| Potassium | 190 mg | No maximum set |
| Chloride | 72 mg | No maximum set |

***Note 1*** See paragraph 1.1.2—14(3)(a).

***Note 2*** For niacin, add niacin and any niacin provided from the conversion of the amino acid tryptophan, using the conversion factor 1:60.

***Note 3*** See paragraph 1.1.2—14(3)(c).

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Amendment History

The Amendment History provides information about each amendment to the Schedule. 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 compilation No. 6 of Schedule 29 as in force on **25 July 2019** (up to Amendment No. 186). It includes any commenced amendment affecting the compilation to that date.

Prepared by Food Standards Australia New Zealand on **1 August 2019**

**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 Schedule 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 Legislation 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 29** was published in the Food Standards Gazette No. FSC96 on 10 April 2015 as part of Amendment 154 (F2015L00463 –- 1 April 2015) and has since been amended as follows:

| Section affected | A’ment No. | FRL registrationGazette  | Commencement(Cessation) | How affected | Description of amendment |
| --- | --- | --- | --- | --- | --- |
| table to S29—7 | 172 | F2017L011426 Sept 2017FSC1147 Sept 2017  | 7 Sept 2017 | am | Omit ‘phytylmenoquinone’ from table. |
| S29—10(3) | 157 | F2015L013741 Sept 2015FSC993 Sept 2015 | 1 March 2016 | rs | Subsection and related table. |
| table to S29—17 | 161 | F2016L0012018 Feb 2016FSC10322 Feb 2016 | 1 March 2016 | am | Correction of typographical error in table heading. |
| table to S29—20 | 168 | F2017L0041411 April 2017FSC11013 April 2017  | 13 April 2017 | am | Insertion of a sodium fluoride as a permitted form of fluoride which was inadvertently omitted in FSC96. |
| table to S29—20 | 173 | F2017L0117613 Sept 2017FSANZ Notification Circular 24-17 (Urgent Proposal)14 Sept 2017  | 14 Sept 2017 | am | Omit L-arginine and substituting L-arginine and L-arginine acetate as a permitted form of Amino acids. |
| S29—21 | 161 | F2016L0012018 Feb 2016FSC10322 Feb 2016 | 1 March 2016 | rs | Notes 1, 2 and 3 to correct incorrect cross-reference and missing full stops. |
| table to S29—21 | 168 | F2017L0041411 April 2017FSC11013 April 2017  | 13 April 2017 | am | Correction to abbreviation of megajoule in the heading,Correction to formatting error for entry for vitamin E. |
| table to S29—14 | 182 | F2018L0159423 Nov 2018FSC12329 Nov 2018  | 29 Nov 2018 | am | Corrections to typographical error (1) |
| table to S29—14 | 186 | F2019L0099617 July 2019FSC12725 July 2019 | 25 July 2019 | am | Omit L-carniitine 100mg and substituting L-carnitine 2g |