CODEX STAN 99-1981 Page 1 of 9

CODEX STANDARD FOR CANNED TROPICAL FRUIT SALAD

CODEX STAN 99-1981

1. **DESCRIPTION**

1.1 **Product Definition**

Canned tropical fruit salad is the product (a) prepared from a mixture of basic fruits as specified in Section 1.2 (a) to which may be added one or more optional fruits as specified in Section 1.2 (b); (b) such fruits may be fresh, frozen or canned; (c) the fruit mixture is packed with water or other suitable liquid packing medium and may be packed with nutritive sweeteners and processed by heat in an appropriate manner before or after being sealed in a container so as to prevent spoilage.

1.2 Kinds and Styles of Fruits

The fruit ingredient shall consist of each of the three fruit groups listed under Basic Fruits to which may be added any one or more of the fruits listed under Optional Fruits. The fruit shall be peeled, cored, trimmed, deseeded or pitted as may be applicable for the respective fruit in normal culinary preparation.

(a) Basic Fruits

Pineapple (Ananas comosus (L.) Merrill) - tidbits, pieces, dices, chips or crisp cut.

Papaya (Carica papaya L.) or **Mango** (Mangifera indica L.) - singly or in combination - slices, dices or sections.

Banana (cultivated edible species of *Musa*) - slices or dices.

(b) Optional Fruits

Litchi (*Litchi chinensis* SONN.) - whole or broken segments.

Cashew (Anacardium occidentale L.) - as flesh.

Guava (Guayaba) - (Psidum guajava L.) - quarters, slices, dices or puree.

Longan (Euphoria longan) (LOUR. STEUD.) - whole or broken segments.

Oranges (*Citrus sinensis* (L.) OSBECK and *Citrus reticulata* BLANCO) (including *Mandarin*) whole segments.

Grapefruit (Citrus paradisi MACFAD) - whole or half segments.

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CODEX STAN 99-1981 Page 2 of 9

Grapes (Cultivated edible species of *Vitis*) - whole grapes of any seedless variety.

Maraschino Cherries - (Prepared from fruit conforming with the characteristics of *Prunus avium* L.) - whole or halves (and pitted).

Passion Fruit (Cultivated edible species of Passiflora) - pulp (flesh) with or without seeds.

Jack Fruit (Artocarpu integrifolia L.) - slices.

Melon (*Cucumis melo* L.) - slices, dices or balls.

Rambutan (Nephelium lappaceum L.) - whole or broken segments.

Peach (Prunus persica L. BATSCH) - pieces, dices or slices.

Pears (Pyrus communis L.) - pieces, dices or slices.

2. ESSENTIAL COMPOSITION AND QUALITY FACTORS

2.1 **Proportion of Fruits** (basic ingredients)

2.1.1 Fruits shall be in the following proportions, based on the individual drained fruit weights in relation to the drained weights of all the fruits:

		Minimum	Maximum
Basic Fruits			
Pineapple		45%	65%
Papaya or Mango (singly or in combination)		25%	50%
Banana	5%	20%	
Optional Fruits			
Litchi		5%	20%
Melon	5%	20%	
Longan	5%	20%	
Guava (Guayaba) (except puree, as			
specified in 2.1.2)		5%	20%

2.1.2 The following optional fruits are not considered in the determination of proportions of fruit as their consistency after processing prevents an accurate determination of their drained weight. However, it is recommended that they make up following percentages of the fruit ingredients present:

CODEX STAN 99-1981 Page 3 of 9

	Minimum	Maximum
Guava puree (see 2.1.1)	5%	20%
Cashew 2%	5%	
Passion Fruit	1%	5%
Jack Fruit	5%	15%
Grape	3%	20%
Rambutan	5%	20%
Oranges (including Mandarin)	3%	15%
Maraschino Cherries	1%	4%
Peach	5%	20%
Grapefruit	3%	15%
Pears 5%	20%	
Water melon	5%	15%
Carambola	5%	20%

2.1.3 Acceptance

A lot will be considered as meeting the requirements for Proportions of Fruits when:

- (a) The average of the individual fruit proportions (except those in 2.1.2 above) from all containers in the sample is within the range required for the individual fruits; and
- (b) The number of individual containers, which are not within the range for any or one or more fruits, does not exceed the acceptance number (c) of an appropriate sampling plan with an AQL of 6.5 (see relevant Codex texts on methods of analysis and sampling).

2.2 **Packing Media** ¹

- 2.2.1 Canned Tropical Fruit Salad may be packed in any one of the following packing media:
 - (a) **Water** in which water is the sole packing medium;
 - (b) Water and Fruit Juice in which water and fruit juice(s) from the specified fruits, is the sole liquid packing medium;
 - (c) *Fruit Juice* in which one or more fruit juice(s) from the specified fruits, which may be strained or filtered, is the sole liquid packing medium;
 - (d) **With Sugar**(s) any of the foregoing packing media (a) through (c), may have one or more of the following sugars added: sucrose, invert sugar syrup, dextrose, dried glucose syrup, glucose syrup, fructose and fructose syrup.

2.2.2 Classification of packing media when sugars are added

(a) When sugars are added to fruit juice(s), the liquid media shall be not less than 14° Brix, and they

See Annex to Part I.

CODEX STAN 99-1981 Page 4 of 9

are classified on the basis of the cut-out strength as follows:

Lightly sweetened: (name of fruit) Juice - Not less than 14° Brix

Heavily sweetened: (name of fruit) Juice - Not less than 18° Brix

(b) When sugars are added to water or water and one or more fruit juices the liquid media shall be classified on the basis of the cut-out strength as follows:

Basic Syrup Strengths

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Light Syrup - Not less than 14° Brix
Heavy Syrup - Not less than 18° Brix
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Optional Packing Media

When not prohibited in the country of sale, the following packing media may be used;

Slightly Sweetened Water	}	Not less than 10° Brix
Water Slightly Sweetened	}	but less than 14° Brix
Extra Light Syrup	}	

Extra Heavy Syrup Not less than 22° Brix

2.2.3 Compliance with packing media classification

Cut-out strength of sweetened juice or syrup shall be determined on sample average, but no container may have a Brix value lower than that of the minimum of the next category below, if such there be.

2.3 Quality Criteria

2.3.1 **Colour**

Canned Tropical Fruit Salad shall have a colour characteristic of the mixed processed fruit, except that a slight bleaching of colour from the coloured cherries is acceptable.

2.3.2 **Flavour**

Canned Tropical Fruit Salad shall have a normal flavour and odour characteristic for the particular blend of fruit.

CODEX STAN 99-1981 Page 5 of 9

2.3.3 Texture

The texture of the fruit ingredient shall be appropriate for the respective fruit.

2.3.4 **Defects and Allowances**

Canned Tropical Fruit Salad shall be substantially free from defects within the following prescribed limits.

Defect Maximum Limits

(a)	Blemished fruit pieces	2 pieces/100 g of drained
	(consisting of pieces of fruit with dark	fruit
	surface areas, spots penetrating the fruit,	
	and other abnormalities)	

(b)	Peel (based on averages) (considered a defect	$6.5 \text{ cm}^2/500 \text{ g of}$
	only when occurring on, or from those fruits	total contents
	which are peeled)	

(c)	Seeds (other than Passion fruit seeds)	2 g/500 g of total
	Seed Material and Extraneous Vegetable Matter	contents

2.3.5 Classification of "defectives"

A container shall be considered a "defective" that fails to meet one or more of the applicable quality requirements in 2.3.1 through 2.3.4.

2.3.6 Lot Acceptance

A lot will be considered as meeting the applicable quality and other requirements referred to in 2.3.5 when:

- (a) for those requirements which are not based on average the number of "defectives", as defined in sub-section 2.3.5, does not exceed the acceptance number (c) of an appropriate sampling plan with an AQL of 6.5 (see relevant Codex texts on methods of analysis and sampling); and
- (b) the requirements which are based on sample averages are complied with.

CODEX STAN 99-1981 Page 6 of 9

3. FOOD ADDITIVES

Maximum Level

Additives

3.1 **Colouring Matter**

Erythrosine (to colour cherries) Limited by Good Manufacturing Practice

3.2 **Flavours**

3.2.1 Cherry Laurel Oil (to flavour artificially coloured

10 mg/kg in the total cherries only) product

3.2.2 Bitter Almond Oil (to flavour artificially coloured

cherries only)

40 mg/kg in the total

product

3.2.3 Natural flavours and nature-identical flavours

Manufacturing Practice

Limited by Good

3.3 **Anti-Oxidant**

L-ascorbic acid 700 mg/kg

3.4 **Acidifying Agent**

Citric acid Limited by Good Manufacturing Practice

3.5 **Firming Agents**

3.5.1	Calcium chloride	}	350 mg/kg singly or
3.5.2	Calcium lactate }		in combination, calculated
3.5.3	Calcium gluconate	}	as Ca

4. **CONTAMINANTS**

Tin (Sn) 250 mg/kg, calculated as Sn Lead (Pb) 1 mg/kg

5. **HYGIENE**

- 5.1 It is recommended that the product covered by the provisions of this standard be prepared and handled in accordance with the appropriate sections of the Recommended International Code of Practice - General Principles of Food Hygiene (CAC/RCP 1-1969), and other Codes of Practice recommended by the Codex Alimentarius Commission which are relevant to this product.
- 5.2 To the extent possible in Good Manufacturing Practice, the product shall be free from objectionable matter.
- 5.3 When tested by appropriate methods of sampling and examination, the product:

CODEX STAN 99-1981 Page 7 of 9

- shall be free from microorganisms in amounts which may represent a hazard to health;
- shall be free from parasites which may represent a hazard to health; and
- shall not contain any substance originating from microorganisms in amounts which may represent a hazard to health.

6. WEIGHTS AND MEASURES

6.1 **Fill of Container**

6.1.1 **Minimum Fill**

The container shall be well filled with fruit and the product (including packing medium) shall occupy not less than 90% of the water capacity of the container. The water capacity of the container is the volume of distilled water at 20°C which the sealed container will hold when completely filled.

6.1.2 Classification of "defective"

A container that fails to meet the requirement for minimum fill (90 percent container capacity) of 6.1.1 shall be considered a "defective".

6.1.3 Lot Acceptance

A lot will be considered as meeting the requirement of 6.1.1 when the number of "defectives" as defined in sub-section 6.1.2 does not exceed the acceptance number (c) of an appropriate sampling plan with an AQL of 6.5 (see relevant Codex texts on methods of analysis and sampling).

6.2 **Minimum Drained Weight**

- 6.2.1 The drained weight of the product shall not be less than 50% of the weight of distilled water at 20°C which the sealed container will hold when completely filled.
- 6.2.2 The requirements for minimum drained weight shall be deemed to have been complied with when the average drained weight of all containers examined is not less than the minimum required, provided that there is no unreasonable shortage in individual containers.

CODEX STAN 99-1981 Page 8 of 9

7. **LABELLING**

In addition to the requirements of the Codex General Standard for the Labelling of Prepackaged Foods (CODEX STAN 1-1985), the following specific provisions apply:

7.1 The Name of the Food

- 7.1.1 The name of the product shall be "Tropical Fruit Salad", "Tropical Fruit Cocktail" or "Tropical Fruit Mix".
- 7.1.2 When the packing medium is composed of water, or water and one or more fruit juices in which water predominates, the packing medium shall be declared as part of the name or in close proximity thereto, as:

"In water" or "Packed in water".

7.1.3 When the packing medium is composed solely of a single fruit juice, the packing medium shall be declared as part of the name or in close proximity thereto, as:

"In (name of fruit) juice"

7.1.4 When the packing medium is composed of two or more fruit juices, it shall be declared as part of the name or in close proximity thereto:

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"In (name of fruits) juice"
or
"In fruit juices"
or
"In mixed fruit juices"
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7.1.5 When sugars are added to one or more fruit juices, the packing medium shall be declared as may be appropriate:

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"Lightly sweetened (name of fruit) juice"
or
"Heavily sweetened (name of fruits) juice(s)"
or
"Lightly sweetened fruit juices"
or
"Heavily sweetened mixed fruit juice(s)"
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7.1.6 When sugars are added to water, or water and one or more fruit juices, the packing medium shall be declared as may be appropriate:

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"Light syrup" or "Heavy syrup"
or
"Water slightly sweetened" or "slightly sweetened water"
or
"Extra light syrup" or "Extra heavy syrup"
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CODEX STAN 99-1981 Page 9 of 9

7.1.7 When the packing medium contains water and one or more fruit juice(s), in which the fruit juice comprises 50% or more by volume of the packing medium, the packing medium shall be designated to indicate the preponderance of such fruit juice, as, for example:

"(name of fruits) juice(s) and water"

7.2 List of Ingredients

- 7.2.1 A complete list of ingredients shall be declared on the label in descending order of proportion in accordance with the General Standard for the Labelling of Prepackaged Foods (CODEX STAN. 1-1985), except as provided for in 7.2.2 and 7.2.3.
- 7.2.2 The declaration of Maraschino Cherries shall be:

"Cherries artificially coloured and flavoured"

7.2.3 If L-ascorbic acid is added to preserve colour, its presence shall be declared in the list of ingredients in the following manner:

"L-ascorbic acid added as an antioxidant"

8. METHODS OF ANALYSIS AND SAMPLING

See relevant Codex texts on methods of analysis and sampling.