codex alimentarius commission



FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS





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JOINT FAO/WHO FOOD STANDARDS PROGRAMME CODEX ALIMENTARIUS COMMISSION

Twenty-fourth Session Geneva, 2-7 July 2001

REPORT OF THE FIRST SESSION OF THE

AD HOC CODEX INTERGOVERNMENTAL TASK FORCE ON FRUIT AND VEGETABLE JUICES

Brasilia, Brazil, 18-22 September 2000

codex alimentarius commission



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CX 5/100

CL 2000/36-FJ October 2000

SUBJECT	:	Distribution of the Report of the 1 st Session of the <i>Ad Hoc</i> Codex Intergovernmental Task Force on Fruit and Vegetable Juices
FROM	:	Secretary, Codex Alimentarius Commission, Joint FAO/WHO Food Standards Programme, FAO, 00100 Rome, Italy
ТО	:	Codex Contact PointsInterested International Organizations

REQUEST FOR COMMENTS AND INFORMATION

Proposed Draft Standards at Step 3 of the Procedure

- 1. Proposed Draft Codex General Standard for Fruit Juices and Nectars (para. 30 and Appendix II)
- 2. Proposed Draft Revised Codex General Standard for Vegetable Juices (para. 33 and Appendix III)

Governments wishing to summit comments on the above should do so in writing to the Secretary, Joint FAO/WHO Food Standards Programme, FAO, Via delle Terme di Caracalla, 00100 Rome, Italy, **before 1 February 2001**.

SUMMARY AND CONCLUSIONS

The 1st Session of the *Ad Hoc* Codex Intergovernmental Task Force on Fruit and Vegetable Juices reached the following conclusions:

MATTERS FOR CONSIDERATION BY THE 24th SESSION OF THE CODEX ALIMENTARIUS COMMISSION

The Task Force:

• Agreed to discontinue the consideration of the *Guidelines for the Labelling of Mixed Fruit Juices and Nectars* as a separate issue by incorporating it in the Labelling Section of the *Proposed Draft Codex General Standard for Fruit Juices and Nectars* and inform the Executive Committee accordingly (paras. 9, 28 and 35).

OTHER MATTERS OF INTEREST TO THE COMMISSION

The Task Force:

- Agreed to return the *Proposed Draft Codex General Standard for Fruit Juices and Nectars* and the *Proposed Draft Revised Codex General Standard for Vegetable Juices* to Step 3 for further comments (paras. 30 and 33).
- Decided to establish two drafting groups that will work by correspondence namely:
 - **Drafting Group on the Revision of the Standards** led by Brazil with the assistance of the United States as rapporteur and the participation of France, Spain, Thailand and the International Federation of Fruit Juice Producers (IFU), with a view to redrafting both Proposed Draft Standards under consideration by the Task Force, particularly those undecided provisions of the Standards, based on the written comments received at the first meeting and in response to CL 2000/36-FJ (paras. 31, 32 and 34).
 - **Drafting Group on Methods of Analysis and Sampling** led by Canada with the participation of Brazil, Spain and the IFU, aimed at revising and updating the methods of analysis and sampling for fruit and vegetable juices and nectars with a view to presenting a consolidate list at the next session of the Task Force (para. 29).

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INTRODUCTION

1. The 1st Session of the *Ad Hoc* Codex Intergovernmental Task Force on Fruit and Vegetable Juices was held in Brasilia from 18 - 22 September 2000 at the kind invitation of the Government of Brazil. The Session was chaired by Dr Luiz Carlos de Oliveira, Secretary of Animal and Plant Health Protection and Inspection, Ministry of Agriculture and Supply. It was attended by 106 delegates from 22 Member countries and 4 international organizations. The list of participants is attached to this report as Appendix I.

OPENING OF THE SESSION

2. Mr. Walter Franco, the FAO Representative in Brazil, addressed the Committee on behalf of the Food and Agriculture Organization of the United Nations (FAO). The speaker highlighted the international approach of Codex standards within the SPS and TBT Agreements of WTO as well as the establishment of the *Ad Hoc* Codex Intergovernmental Task Force on Fruit and Vegetable Juices to address issues relating the standardization of these products.

3. Remarks on behalf of WHO/PAHO were presented by Mr. Jacobo Finquelman, the WHO/PAHO Representative in Brazil. He emphasized the importance of having international standards to assure the safety of the food supply.

4. Mr Marcus Vinicius Pratini de Moraes, Minister of Agriculture and Supply, opened the Task Force on behalf of the Government of Brazil. He underlined the importance of fruit juice production in Brazil and the need to protect consumers' health while ensuring international fair trade in these products. The Minister wished the participants the utmost success in its deliberations as well as a most enjoyable stay in Brazil.

ADOPTION OF THE AGENDA (Agenda Item 1)¹

5. The Task Force adopted the Provisional Agenda as proposed.

MATTERS OF INTEREST TO THE TASK FORCE ARISING FROM THE CODEX ALIMENTARIUS COMMISSION AND OTHER CODEX COMMITTEES (Agenda Item 2)²

6. The Task Force noted matters arising from the 23rd Session of the Codex Alimentarius Commission (CAC) and other Codex Committees, including those matters arising from the most recent 47th Session of the Executive Committee of the Codex Alimentarius Commission (CCEXEC). The Task Force was informed that the document was presented for information only and that issues contained therein would be further considered when discussing the relevant agenda items.

PROPOSED DRAFT CODEX GENERAL STANDARD FOR FRUIT JUICES AND NECTARS (Agenda Item 3a)³

7. Following the decision of the Codex Alimentarius Commission that existing Codex commodity standards should be revised and simplified as much as possible, the proposed draft Codex General Standard for Fruit Juices and Nectars was prepared by the International Federation of Fruit Juice Producers (IFU) and circulated for comment at Step 3 by the Codex Secretariat.

GENERAL CONSIDERATIONS

8. The Task Force reached a general decision that in order to accurately reflect current marketing practices and similarities between the products being considered, the General Standard should include mixtures of fruit juices and mixtures of fruit nectars in addition to the proposed general provisions for fruit juices and fruit nectars.

9. In view of this decision, the Task Force agreed to include the proposed draft Guidelines for the Labelling of Mixed Fruit Juices and Nectars (agenda item 3c) as an integral part of the General Standard for Fruit Juices and Nectars under Section 7 - Labelling.

¹ CX/FJ 00/1

² CX/FJ 00/2

³ Proposed Draft Codex General Standard for Fruit Juices and Nectars (CL 2000/01-FJ) and comments submitted by Brazil, Canada, Israel, Japan, Malaysia, Poland, Singapore, South Africa, United Kingdom, USA, IFU, WPTC (CX/FJ 00/3); Argentina, Cuba, Dominican Republic, Egypt, New Zealand, Spain, Uruguay (CX/FJ 00/3-Add. 1); Italy (CX/FJ 00/3-Add.2); Switzerland (CRD 1); Korea (CRD 2); Thailand (CRD 3); France (CRD 5); and, EC (CRD 6 and complementary comments - Unumered Document).

Therefore, the Task Force discontinued the consideration of the proposed draft Guidelines for the Labelling of Mixed Fruit Juices and Nectars as a separate issue and decided to inform the Executive Committee accordingly (see paras. 28 and 35).

10. The Task Force further agreed that the proposed draft Revised Codex Standard for Vegetable Juices should be considered separately, with the understanding that it might be incorporated into the General Standard for Fruit Juices and Nectars at its next Session (see para. 34).

Section 1 – Scope

11. The Task Force noted that Section 2.1 – Product Definition, provided a clear indication as to which specific products the General Standard applied and therefore, decided to leave Section 1 – Scope, as drafted.

Section 2.1 – Product Definition

12. There was a lengthy discussion on product definition with opposing views presented. The Task Force however reached the following compromise solution, with the understanding that the issue would be subject to further debate. The Task Force agreed that Section 2.1.1 - Fruit Juice, included fruit juice as well as fruit juice prepared from concentrate and therefore, renumbered Section 2.1.1 to include new subsections 2.1.1.1 (Fruit Juice) and 2.1.1.2 (Fruit Juice from Concentrate) with the appropriate description of provisions applicable to Sections 2.1.1.1 and 2.1.1.2 under new Sections 2.1.1.3, paragraphs (a), (b) and (c).

13. Under the new Section 2.1.1.1 - Fruit Juice, the Task Force deleted the generic reference to the use of processing aids since all substances allowed in the production of fruit juices would be listed in the appropriate section of the Standard (see para. 26).

14. Under the new Section 2.1.1.3 (a) the Task Force clarified the text to indicate that fruit juice may be obtained from fresh fruit or fruit maintained in fresh condition by physical means and/or by treatments approved by the Codex Alimentarius Commission. However, the reference to post harvest treatments was deleted since this issue was already covered under Section 5.3 – Pesticide Residues.

15. The Task Force reworded the new Section 2.1.1.3 (c) to allow for the production of mixed fruit juices prepared from two or more kinds of fruit. It was also decided to consider the addition and/or restoration of aromatic substances, volatile flavour components, pulps and cells to all juices and puree with the understanding that the final wording of the text would be subject to further debate and therefore, the entire sub-section was placed in square brackets.

<u>Section 2.1.2 – Concentrated Fruit Juice</u>

16. The Task Force greatly expanded this Section to indicate that Concentrated Fruit Juice should comply with the provisions for Fruit Juice except that water should be removed in an amount sufficient to increase the Brix level by 50% or more (in square brackets). The Task Force also clarified the processes used in the production of concentrated fruit juice and agreed to include a similar text concerning the production of concentrated mixed fruit juices to this section as had been accomplished in Section 2.1.1.3 (c) (see para. 15).

Section 2.1.3 – Fruit Nectar

17. The Title of the Section was revised to read as "Fruit Nectar" for consistency with other provision titles. The Task Force clarified this Section to indicate that the addition of water to fruit juice or concentrated fruit juice was required in the production of fruit nectar, and that the addition of sugars, honey, and sweeteners, was optional.

Section 2.1.4 – Fruit Puree

18. The Task Force agreed not to restrict the processes used to produce fruit puree by referring to "appropriate processes (e.g., sieving, grinding, milling)".

Water Extracted Concentrated Fruit Juice

19. The Task Force noted a proposal from Brazil to include a new section for Water Extracted Concentrated Fruit Juice.

Section 2.3 – Extraction Process

20. The Task Force deleted this Section in its entirety as it was adequately addressed in the new Section 2.1.2 – Concentrated Fruit Juice.

Section 3.1.1 (a) – Soluble Solids

21. The Task Force removed the term "condensed" from Section 3.1.1(a)(ii) as the word was not defined within the Standard.

22. As the Task Force noted that the *WHO Guidelines for Drinking Water Quality* contained maximum level provisions for many different contaminants, it was agreed that the specific maximum levels for nitrate and sodium in Section 3.1.1(a)(iii) should be removed. However, the reference to the WHO Guidelines was maintained so that potable water used in the production of reconstituted juice from concentrate would at a minimum meet the maximum level provisions for contaminants contained therein.

Section 3.1.1(b) – Table for Minimum Brix Levels

23. As it was noted that single strength juice consisted of simple juice extractions, it was suggested that the column for minimum Brix level for single strength juices as well as Section 3.1.1(a)(i) should be deleted. It was also suggested that an additional column was required to address fruit purees, and that the table should only include products traded in significant amounts. However, the Task Force agreed to leave the table unchanged pending further discussions (see para. 31).

Section 3.1.2 – Other Permitted Ingredients Subject to Ingredient Labelling Requirements

24. The Task Force agreed to add a new sub-section 3.1.2 (g) to allow for the addition of essential nutrients for fortification purposes in accordance with those texts established by the Codex Alimentarius Commission for this purpose. The Task Force was informed that this provision did not include dietary fibre as this subject was still under discussion by the Codex Committee on Nutrition and Foods for Special Dietary Purposes. The Task Force agreed to leave the remainder of Section 3.1.2 unchanged pending further discussions.

Section 4 – Food Additives

25. The Task Force was informed that all provisions in respect of food additives would require endorsement by the Codex Committee on Food Additives and Contaminants on the basis of technological justification provided by the Task Force and in conformance with the General Principles for the Use of Food Additives and the Preamble to the Codex General Standard for Food Additives, preferably after the standards have been advanced to Step 5. Therefore, the Task Force decided to maintain the maximum levels for food additives as proposed, pending further development of the Standard.

26. The Task Force was informed that processing aids were also subject to endorsement by the Codex Committee on Food Additives and Contaminants and that the addition of such substances to the Standard would be discussed at its next Session (see para. 13).

<u>Section 5 – Contaminants</u>

27. The Task Force deleted the maximum levels for contaminants as proposed, pending the further development of the Codex General Standard for Contaminants and Toxins in Foods by the Codex Committee on Food Additives and Contaminants. The general statement that "The products covered by the provisions of this Standard shall comply with those maximum levels established by the Codex Alimentarius Commission" was included in this Section as had been accomplished for other standards finalized by the Codex Alimentarius Commission.

Section 7 – Labelling

28. As the Task Force could not reach a consensus on modifications to this Section, it was decided to place the entire Section as drafted in square brackets pending further discussion at its next meeting. It was also decided that this Section should incorporate the proposed draft Codex Guidelines for the Labelling of Mixed Fruit Juices and Nectars (CL 2000/04-FJ) (see paras. 9 and 35) and should take account of the relevant provisions contained in the Codex General Standard for the Labelling of Prepackaged Foods and written comments submitted at the current meeting.

Section 8 – Methods of Analysis and Sampling

29. The Task Force decided to assign responsibility for the revision and updating of methods of analysis for both fruit (CL 2000/01-FJ, Tables I and II) and vegetable juices to a drafting group lead by Canada, with the participation of Brazil, Spain, USA and the IFU, with the understanding that a consolidated list would be presented for consideration by the Task Force at its next meeting. In taking this decision, the Task Force indicated that the methods of analysis were "under development" in Section 8.

STATUS OF THE PROPOSED DRAFT CODEX GENERAL STANDARD FOR FRUIT JUICES AND NECTARS

30. The Task Force agreed to return the proposed draft Codex General Standard for Fruit Juices and Nectars to Step 3 (see Appendix II) for circulation and comment by 1 February 2001.

31. It decided to assign the revision of the General Standard to a drafting group led by Brazil, with the assistance of the United States as rapporteur and the participation of France, Germany, Spain, Thailand and the IFU. It was agreed that the drafting group would work by correspondence and would primarily focus its efforts on those undecided provisions of the Standard.

32. It was stressed that the drafting group would consider written comments submitted at the current meeting as well as additional comments submitted at Step 3 (by 1 February 2001) to the Codex Secretariat. It was further decided that all comments submitted would be provided to members of the drafting group by the Codex Secretariat in a timely manner. The Task Force further agreed that the revised Standard to be considered at its next Session would include all comments submitted at Step 3 as well as a clear explanation and justification in regard to decisions taken by the drafting group.

PROPOSED DRAFT REVISED CODEX STANDARD FOR VEGETABLE JUICES (Agenda Item $3b)^4$

33. The Task Force agreed to return the proposed draft Revised Codex General Standard for Vegetable Juices to Step 3 (see Appendix III) for circulation and comment by 1 February 2001.

34. The Task Force decided that the proposed draft Revised General Standard for Vegetable Juices would be considered by the same drafting group established above and in accordance with the same working procedures (see paras. 31-32). It was further agreed that the proposed draft Revised Codex Standard for Vegetable Juices would be considered by the drafting group separately from the proposed draft Codex General Standard for Fruit Juices and Nectars with the understanding that the Standards might be combined at the next session of the Task Force on the basis of the drafting group discussions (see para. 10).

PROPOSED DRAFT CODEX GUIDELINES FOR THE LABELLING OF MIXED FRUIT JUICES AND NECTARS (Agenda Item 3c)⁵

35. In view of previous decisions (see paras. 9 and 28), the Task Force decided to inform the Executive Committee of its decision to discontinue the consideration of the proposed draft Codex Guidelines for the Labelling of Mixed Fruit Juices and Nectars.

OTHER BUSINESS AND FUTURE WORK (Agenda Item 4)

36. The Task Force had no further business or new work to discuss.

⁴ CL 2000/02-FJ and comments submitted by Argentina, Brazil, Canada, Cuba, Cyprus, Italy, Malaysia, New Zealand, Poland, Portugal, South Africa, Spain, United Kingdom, USA, Uruguay and IFU (CX/FJ 00/4); Switzerland (CRD 1); Korea (CRD 2); Thailand (CRD 3); Germany (CRD 4); and, France (CRD 5).

⁵ CL 2000/04-FJ and comments submitted by Argentina, Brazil, Canada, Cuba, Italy, Japan, New Zealand, Portugal, South Africa, Spain, USA, Uruguay (CX/FJ 00/5); Switzerland (CRD 1); Thailand (CRD 3); and, France (CRD 5).

DATE AND PLACE OF NEXT SESSION (Agenda Item 5)

37. The Task Force was informed that its 2^{d} Session was tentatively scheduled to be held in Rio de Janeiro in 12 - 18 months time, subject to further discussions between the Codex and Brazilian Secretariats.

Subject	Step	For Action by	Document Reference (ALINORM 01/39)
Proposed Draft Codex General Standard for Fruit Juices and Nectars Proposed Draft Revised Codex General Standard for Vegetable Juices	3	Governments Drafting Group on the revision of the General Proposed Draft Standards (Brazil assisted by USA, France, Germany, Spain, Thailand and the IFU) 2 nd TFFVJ	Appendix II and paras. 31 & 32 Appendix III and para. 34
Methods of Analysis and Sampling for Fruit and Vegetable Juices and Nectars		Drafting Group on the revision and updating of the Methods of Analysis and Sampling for Fruit and Vegetable Juices and Nectars (Canada assisted by Brazil, Spain, USA and the IFU) 2 nd TFFVJ	para. 29

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PROPOSED DRAFT CODEX GENERAL STANDARD FOR FRUIT JUICES AND NECTARS (At Step 3)

1. SCOPE

This standard applies to all fruit juice and fruit nectars as defined in Section 2.1 below.

2. DESCRIPTION

2.1 **PRODUCT DEFINITION**

2.1.1 Fruit Juice

Fruit juice is the unfermented but fermentable liquid obtained as follows:

2.1.1.1 Fruit juice directly expressed by mechanical extraction processes.

2.1.1.2 **Fruit juice from concentrate** by reconstituting concentrated fruit juice defined in Section 2.1.2 with potable water that meets the criteria described in Section 3.1.1(a)(iii).

2.1.1.3

- a) The juice is obtained from the edible part of sound, appropriately mature and fresh fruit or fruit maintained in fresh condition by physical means and/or by treatments applied in accordance with the provisions of the Codex Alimentarius Commission.
- b) The juice may be cloudy or clear and must have the essential characteristics typical of the juice of the fruit from which it comes..
- [c) A single juice is obtained from one kind of fruit. Two or more kinds of juices may be mixed together. Juice may have added or restored aromatic substances, volatile flavour components, pulp and cells, all of which must be recovered from the same kinds of fruits and be obtained by physical means.]

2.1.2 Concentrated Fruit Juice

Concentrated fruit juice is the product that complies with the definition given in Section 2.1.1 above, except water has been physically removed (from such juice) in a given amount [sufficient to increase the Brix level by 50% or more]. In the production of juice that is to be concentrated [adequate technological]⁶ [physical]⁷ processes are used and may [include]¹ [be combined with]² simultaneous diffusion of the pulp cells or fruit pulp by water, provided that the water extracted juice is added in-line to the primary juice, before the concentration procedure

Two or more kinds of fruit juice concentrates may be mixed together. Fruit juice concentrates may have added or restored aromatic substances, volatile flavour components, pulp and cells, all of which must be recovered from the same kinds of fruits and be obtained by physical means.

2.1.3 Fruit Nectar

Nectar is the unfermented but fermentable product, obtained by adding water with or without the addition of sugars as defined in the Codex Standard for Sugars (CX-STAN 212-1999), other carbohydrate sweeteners such as honey and/or other sweeteners as described in Section 4.5, to products defined in Sections 2.1.1 and 2.1.2, or to fruit purée or concentrated fruit purée or to a mixture of those products.

That product moreover must meet the requirements defined in Section 3.1.1(c).

2.1.4 Fruit Purée

Fruit purée is the unfermented but fermentable product obtained by appropriate processes (eg sieving, grinding, milling) the edible part of the whole or peeled fruit without removing the juice. The fruit must be sound, appropriately mature and fresh fruit or preserved by physical means or by treatment applied in accordance with the provisions of the Codex Alimentarius Commission. Concentrated fruit purée may be obtained by the physical removal of water of the fruit purée.

⁶ First option

⁷ Second Option

2.2 <u>Species</u>

The species indicated as the botanical name in Section 3.1.1(b) shall be used in the preparation of juices and nectars bearing the food name for the applicable fruit. For fruits not included in Section 3.1.1(b), the correct botanical or common name shall apply.

3. ESSENTIAL COMPOSITION AND QUALITY FACTORS

3.1 <u>COMPOSITION</u>

3.1.1 Basic Ingredients

(a) Soluble Solids as follows:

- i. For fruit juices not from concentrate offered for consumption as such, the soluble solids content of the single strength juice shall not be modified and must be in accordance with the minimum Brix level established in Section 3.1.1(b).
- ii. The preparation of fruit juice offered for direct consumption that requires reconstitution of concentrated juices must be in accordance with the minimum Brix level established in Section 3.1.1 (b), exclusive of the solids of any added optional ingredients and additives. If there is no Brix level specified, in the table, minimum Brix shall be calculated on the basis of the soluble solids content of the single strength, unconcentrated juice used to produce such concentrated juice.
- iii. For reconstituted juice from concentrate, potable water used in reconstitution shall, at a minimum, meet *Guidelines for Drinking Water Quality of the World Health Organization* (Volumes 1 and 2, 2nd Edition)
- (b) Minimum Brix level for reconstituted juice from concentrate and single strength juice not from concentrate.

Fruit	Botanical Name	Brix Level Reconstituted juice	Brix Level Single strength juice not
		from concentrate	from concentrate
Apple	Pyrus Malus	11.2	10.2
Apricot	Prunus armeniaca L.	11.2	10.2
Aronia / Chokeberry	Aronia melanocarpa (Michx.) Ell.	No data currently available	No data currently available
Azerole	Malpighia punicifolia L.	6.5	6.0
Banana	Musca species (plantians excluded)	21	20.0
Bilberry/Blueberry	Vaccinium myrtillus L. Vaccinium corymbosum L. Vaccinium angustifolium	10.0	8.5
Blackberry	Rubus Fruitcosus L.	8.8	8.0
Blackcurrant	Ribes nigrum L.	11.0	10.5
Boysenberry	Rubus loganobaccus L.H. Bailey	8.0	7.0
Buckthornberry = Sallow thorn		5.8	No data currently available
Carambola	Averrhoa carambola	7.8	No data currently available
Casaba melon	Cucumis melo var. Inodorus	7.5	No data currently available
Cashew Fruit	Anacardium occidentale L.	11.5	10.5
Cloudberry	Rubus chamaemorus L.	9.0	8.0
Coconut	Cocos nucifera L.	No data currently available	No data currently available
Cranberry	Vaccinium macrocarpon Ait.; Vaccinium oxycoccos L.	7.5	7.0

Fruit	Botanical Name	Brix Level Reconstituted juice from concentrate	Brix Level Single strength juice not from concentrate
Crowberry	Empetrum nigrum L.	6.0	5.5
Date	Phoenix dactylifera L.	18.5	No data currently available
Dew berry	Rubus hispidus of North America&R. caesius of Europe	10.0	No data currently available
Elderberry	Sambucus nigra L. Sambucus canandensis	10.0	9.0
Fig	Ficus carica	18.2	No data currently available
Gooseberry	Ribes uva-crispi L.	7.0	6.0
Grape	Vitis Vinifera or hybirds thereof; Vitis Labrusca or hybrids thereof	15.9	13.5
Grapefruit	Citrus Paradisi Macfayden	10.0	9.5
Guava	Psidium guajava	9.5	8.5
Honey dew melon	(Cucumis melo)	9.6	No data currently available
Kiwi	Actinidia chinensis J.E. Planch	11.5	10.5
Kumquat	Fortunella sp.	No data currently available	No data currently available
Lemon	Citrus limon (L.) Burm.f.)	8.0	7.0
Lime	Citrus aurantifolia Swingle	8.0	7.0
Lingonberry	Vaccinium vitis-idaea L.	10.0	9.0
Loganberry	Rubus ursinus var. loganobaccus	10.0	No data currently available
Lulo	Solanum quitoenes L.	No data currently available	No data currently available
Litchi	Litchi chinensis Sonn.	12.0	11.2
Mandarin/Tangerine	Citrus reticulata	11.2	10.5
Mango	Mangifera indica	13.0	14.0
Melon	Cucumis melo L.	8.0	7.5
Mulberry	Morus spec.	No data currently available	No data currently available
Nectarine	Prunus persica	10.0	No data currently available
Orange	Citrus sinenis	11.2	10.0
Papaya	Carica papaya L.	9.5	9.0
Passion fruit	Passiflora edulis and Passiflora edulis forma flavicarpa	13.5	12.4
Peach	Prunus persica	10.0	9.0
Pear	Pyrus communis L. ;	11.9	11.0
Persimmon	Diospyros kaki L.	No data currently available	No data currently available
Pineapple	Ananas comosus L. Merrill = Ananas sativus L. Lindl.	12.8	11.2
Plum	Prunus domestica L.	11.2	10.0
Pomegranate	Punica granatum	12.0	11.2

Fruit	Botanical Name	Brix Level Reconstituted juice from concentrate	Brix Level Single strength juice not from concentrate
Prune	Prunus domestica	18.5	No data currently available
Quetsche	Prunus domestica L.	11.2	10.0
Quince	Cydonia oblonga	11.2	10.0
Raspberry	Rubus idaeus	7.0	6.3
Red currant	Ribes rubrum L.	10.0	9.0
Rhubarb	Rheum, R. rhubarbarum	5.7	No data currently available
Rose hip	Rosa sp.	9.0	8.0
Rowanberry	Sorbus aucuparia L.	11.2	10.0
Sallow-thron berry	Hippphae rhamnoides L.	5.8	5.0
Sloe	Prunus spinosa L.	5.8	5.0
Sour cherry	Prunus cerasus	13.5	12.4
Soursop	Annona muricata L.	14.5	13.5
Stonesbaer	Prunus cerasus cv. Stevnsbaer	17.3	14.7
Strawberry	Fragaria ananassa	7.0	6.3
Sugar apple	Annona squamosa L.	14.5	13.5
Sweet cherry	Prunus avium	20.0	No data currently available
Tomato	Lycopersicum esculentum L.	5.0	4.2
Umbu	Spondias tuberosa anuda	9.0	8.0
Water melon	Citrullus lanatus L.	7.8	7.5
White currant	Ribes rubrum L.	10.0	9.0

(c) Special Provisions relating to Fruit Nectars

Fruit nectars made from	Minimum juice and/or purée content (% m/m)
Apricot	35
Bilberry	40
Blackberry	30
Blackcurrant	30
Blackcurrant (non pulpy)	30
Cloudberry	30
Cranberry	30
Elderberry	50
Goosberry	30
Grapefruit	50
Guava	25
Mandarine	50
Mango (pulpy)	30
Orange	50
Peach	40
Peer	40
Raspberry	40
Redcurrant	30
Rose hip	40
Rowanberry	30
Sea Buckthorn	25
Strawberry	40
Tangerine	50

Fruit nectars made from	Minimum juice and/or purée content (% m/m)
Whitecurrant	30
Whortleberry	30
Other : high acidity, high pulp content, or strong flavour	25
Other : low acidity, low pulp content, or low/medium flavour	50

3.1.2 Other permitted ingredients subject to ingredient labelling requirements

- (a) Sugars with less than 2% moisture (as defined in the Codex Standard for Sugars CX-STAN 212-1999): sucrose, dextrose monohydrate, dextrose anhydrous, glucose, fructose may be added to all juice products defined in Section 2.1.
- (b) Syrups (as defined by Codex Standard for Sugars CX-STAN 212-1999): glucose syrup, liquid sucrose, invert sugar solution, invert sugar syrup, fructose syrup, isoglucose, high fructose syrup, sugar derived from fruits and honey may be added only to nectars as defined in Section 2.1.3, concentrated juices as defined and juice from concentrate.
- (c) Lemon juice or lime juice, or both, may be added: up to 3-g/l anhydrous citric acid (50 meq) for acidification purposes to unsweetened juices as defined in Sections 2.1.1 and 2.1.2. Lemon juice or lime juice, or both, may be added : up to 5 -g/l anhydrous citric acid to nectars as defined in Section 2.1.3
- (d) The addition of both sugars and acidifying agents (defined in subparagraph (b) and Section 4 respectively) to the same fruit juice is prohibited.
- (e) The juice from reticulata and citrus hybrids with reticulata may be added to orange juice in an amount not to exceed 10% by weight of total soluble solids.
- (f) Salt and spices may be added to tomato juice.
- (g) The addition of essential nutrients (eg vitamins, minerals) shall comply with the texts of the Codex Alimentarius Commission established for this purpose.

3.2 **QUALITY CRITERIA**

The juices and nectars shall have the characteristic colour, aroma and flavour of juice from the variety of fruit from which it is made. Natural fruit juice components may be restored to juice of the same type of fruit from which such natural volatile fruit juice components have been removed.

4 FOOD ADDITIVES

Function		Maximum Level
4.1	Antioxidants	
300	Ascorbic acid	Limited by GMP
220	Sulphur dioxide (lemon, lime and grape must only)	350 mg/l
4.2	Acidity Regulators	
300	Citric acid	2 g/l
330	Citric acid (for nectars)	5 g/l
296	Malic acid (for nectars)	Limited by GMP
336	Tartric acid (for nectars)	Limited by GMP
4.3	Carbonating Agents	
290	Carbon dioxide	Limited by GMP
4.4	Stabilizers	
440	Pectins	< 3g/l
4.5	Sweeteners (for Nectars)	
950	Acesulfarme K	< 350 mg
951	Aspartame	< 600 mg
952	Cyclamic acid and salts	<400 mg/l
954	Saccharine and salts	< 80 mg/l
955	Sucralose	< 250 mg/l

Function		Maximum Level
954	Neohesperidine	< 30 mg/l
4.6	Preservatives can be added only in accordance with national legislation.	

5. CONTAMINANTS

The products covered by the provisions of this standard shall comply with those maximum levels established by the Codex Alimentarius Commission.

5.1 HEAVY METALS

The products covered by the provisions of this standard shall comply with those maximum levels established by the Codex Alimentarius Commission.

5.2 <u>PESTICIDE RESIDUES</u>

The products covered by the provisions of this standard shall comply with those maximum residue limits established by the Codex Alimentarius Commission.

6. HYGIENE

6.1 It is recommended that the products 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, Rev. 3-1997), and other relevant Codex texts such as Codes of Hygienic Practice and Codes of Practice.

6.2 The products should comply with any microbiological criteria established in accordance with the Principles for the Establishment and Application of Microbiological Criteria for Foods (CAC/GL 21-1997).

[7. LABELLING

In addition to the General Standard for the Labelling of Prepackaged Foods (CODEX STAN 1-1985, Rev. 2-1999) the following specific provisions apply:

7.1 <u>CONTAINERS DESTINED FOR THE FINAL CONSUMER</u>

7.1.1 The Name of the Food

7.1.1.1 Fruit Juice

The name of the product shall be the name of the fruit juice used as defined in Section 2.2. Such food name may only be used for juices conforming to the definition in Section 2.1.1 of this standard and which otherwise conform to this standard.

7.1.1.2 Concentrated Fruit Juice

The name of the product is "concentrated _____ juice or _____ juice concentrate", the blank being filled with the species for the applicable name of the fruit juice used as defined in Section 2.2. Such food name may only be used for juices conforming to the definition in Section 2.1.2 of this standard and which otherwise conform to this standard.

7.1.1.3 Nectar

The name of this product shall be "____ Nectar" or "Nectar of ____" the blank being filled with the species of the applicable fruit juice or fruit purée ingredients in Section 2.2.

7.1.2 Additional Requirements

The following additional specific provisions shall apply:

7.1.2.1 For fruit juices, if the product contains or is prepared from concentrated juice and water or the product is prepared from juice from concentrate and juice, the words "from concentrate" must be entered close to the product name, standing out well from any background, in clearly visible characters.

7.1.2.2 For fruit juices, if the product is prepared by physically removing at least 50% of the water from the fruit juice, it must be labeled "concentrated" juice.

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7.1.2.3 For fruit juice products defined in Section 2.1, where one or more of the optional sugars as defined by the Codex General Standards for sugar are added or permitted sweeteners are added, the juice name shall include the statement called "sugars added" or "sweetened" in conjunction with the food name.

7.1.2.4 Where concentrated fruit juice or concentrated nectar is to be reconstituted before consumption as fruit juice or nectar, the label shall bear appropriate directions for reconstitution on a volume/volume basis with water at a minimum in accordance with the applicable single strength Brix value in Section 3.1.1(b).

7.1.2.5 Distinct varietal denominations may be used in conjunction with the common fruit names on the label.

7.1.2.6 Fruit juice and nectar that have been preserved using physical processes may include a description of such process as part of the food name (i.e. "pasteurised," "frozen," etc.)

7.1.2.7 Fruit nectars shall be conspicuously labelled with a declaration of "fruit content __%" with the blank being filled with the percentage of puree and/ or fruit juice computed on a volume/volume basis. The words "fruit content __%" shall appear in close proximity to the name of the food.

7.2 <u>Non-Retail Containers</u>

Information for non-retail containers not destined to final consumers shall be given either on the container or in accompanying documents, except that the name of the product, lot identification, and the name and address of the manufacturers packers or distributors, as well as storage instructions, shall appear on the container. However, lot identification, and the name and address of the manufacturer, packer or distributor may be replaced by an identification mark, provided that such a mark is clearly identifiable with the accompanying documents.]

8. METHODS OF ANALYSIS AND SAMPLING

[under development]

PROPOSED DRAFT REVISED CODEX GENERAL STANDARD FOR VEGETABLE JUICES CODEX STAN 179-1991 (At Step 3)

1. SCOPE

This standard applies to all vegetable juices as defined below.

2. DESCRIPTION

2.1 "Vegetable juice" is the liquid unfermented but fermentable product or lactic acid fermented product intended for direct consumption obtained from the edible part of one or more sound vegetables and preserved exclusively by physical means⁸. The juice shall be free from skins, seeds and other coarse parts of the vegetables. It may be clear, turbid or pulpy. It may have been concentrated and reconstituted with water suitable for the purpose of maintaining the essential composition and quality factors of the juice.

2.2 Vegetables for the purpose of the standard are: the parts of edible plants including roots, corms and tubers (e.g. carrots, garlic and potatoes), stems and shoots (e.g. asparagus), leaves and flowers (e.g. spinach, cauliflower) and legumes (e.g. peas). Pumpkins and rhubarb are also considered as being vegetables for the purpose of this standard.

3. ESSENTIAL COMPOSITION AND QUALITY FACTORS

3.1 ORGANOLEPTIC PROPERTIES

The product shall have the characteristic colour, aroma and flavour of the vegetables from which it has been prepared taking into consideration the addition of ingredients and possible lactic acid fermentation. Natural volatile constituents may be restored to the juice. They shall be derived from the same types of vegetables used in the manufacture of the product.

3.2 <u>Use of Concentrate</u>

The addition of concentrated vegetable juice is permitted.

3.3 BLANCHING AND WASHING

The vegetables shall retain no more water from these operations than technologically unavoidable.

3.4 INGREDIENTS

The following ingredients may be used:

- a) food grade salt, as defined in the Codex Standard for Food Grade Salt (CX-STAN 150-1985, Rev.1-1997);
- b) vinegar, except in vegetable juices treated by lactic acid fermentation;
- c) sugars in dry form and honey as defined in the Codex Standard for Sugars (CX-STAN 212-1999);
- d) seasoning, spices and herbs;
- e) fruit or fruit based products from which the essential elements of the fruit have not been extracted;
- f) whey or lactoserum having undergone lactic fermentation, not more than 100 g/kg.

4. FOOD ADDITIVES

	Function	Maximum level
300	L-ascorbic acid	400 mg/kg in the final
		product
330	Citric acid	Limited by GMP
270	Lactic acid (not in products having undergone lacticacid fermentation)	Limited by GMP
620	Glutamic acid and its sodium or potassium salt	Limited by GMP
296	Malic acid	Limited by GMP

⁸ For the purpose of this standard and at this time preservation by physical means does not include ionizing radiation.

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Function	Maximum level
290 Carbon dioxide	Limited by GMP
Natural flavour obtained from seasonings, spices, herbs and fruit juices	Limited by GMP

5. CONTAMINANTS

5.1 <u>HEAVY METALS</u>

The products covered by the provisions of this standard shall comply with those maximum levels established by the Codex Alimentarius Commission.

5.2 <u>PESTICIDE RESIDUES</u>

The products covered by the provisions of this standard shall comply with those maximum residue limits established by the Codex Alimentarius Commission for the respective vegetables.

6. HYGIENE

6.1 It is recommended that the products 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, Rev. 3-1997), and other relevant Codex texts such as Codes of Hygienic Practice and Codes of Practice.

6.2 The products should comply with any microbiological criteria established in accordance with the Principles for the Establishment and Application of Microbiological Criteria for Foods (CAC/GL 21-1997).

7. LABELLING

7.1 <u>CONTAINERS DESTINED FOR THE FINAL CONSUMER</u>

In addition to the General Standard for the Labelling of Prepackaged Foods (CODEX STAN 1-1985, Rev. 2-1999) the following specific provisions apply:

7.1.1 The Name of the Food

The name of the food shall be "x juice" or "juice from x" in which "x" is the name(s) of the vegetable(s) used. In the case of juices made from two or more types of vegetables the product may be called "vegetable juice cocktail". If ingredients are used in quantities which characterize the product a declaration in the name of the food shall be made, e.g. "sweetened x juice" or "spiced x juice". If a juice has been obtained by lactic acid fermentation this fact shall be declared by naming the juice "lactic acid fermented" or by putting the words "obtained by lactic acid fermentation" in close proximity to the name of the food.

7.1.2 List of Ingredients

7.1.2.1 A complete list of ingredients shall be declared on the label in accordance with Section 4.2 of the General Standard, except that water added for reconstitution of concentrates need not be declared.

7.1.2.2 If juices have been made from concentrates, this shall be declared in the list of ingredients as follows: "x juice made from concentrate" or "reconstituted x juice" or "x juice made from concentrated x juice".

7.1.3 Additional Requirements

7.1.3.1 No vegetables or vegetable products may be represented pictorially on the label except those present in the product.

7.1.3.2 Where the product contains more than 2 g/kg of carbon dioxide the term "carbonated" shall appear on the label.

7.1.3.3 No claims shall be made in respect of "Vitamin C" nor shall the term "Vitamin C" appear on the label unless the product contains such quantity of "Vitamin C" as would be accepted by national authorities in the country in which the product is sold as warranting such claim or the use of such term. If this is the case, nutrient declaration shall be in accordance with the *Codex Guidelines on Nutrition Labelling* (CAC/GL 2-1985 (rev. 1-1993) and the *Codex Guidelines for the Use of Nutrition Claims* (CAC/GL 23-1997).

7.1.3.4 Where the vegetable juice has been prepared from raw material treated with ionizing radiation, it shall be labelled in accordance with Section 5.2.2 of the General Standard.

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7.2 <u>NON-RETAIL CONTAINERS</u>

Information for non-retail containers shall either be given on the container or in accompanying documents, except that the name of the product, lot identification and name and address of the manufacturer or packer shall appear on the container. However, lot identification and the name and address of the manufacturer or packer may be replaced by an identification mark, provided that such mark is clearly identifiable with the accompanying documents.

8. METHODS OF ANALYSIS AND SAMPLING

[under development]