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CODEX STANDARD FOR LEMON JUICE PRESERVED EXCLUSIVELY BY PHYSICAL MEANS CODEX STAN 47-1981 (World-wide Standard)

1. **DESCRIPTION**

Unfermented but fermentable juice intended for direct consumption, obtained by a mechanical process from the endocarp of sound, ripe lemons (*Citrus limon* Burm. f.) preserved exclusively by physical means.² The juice may have been concentrated and later reconstituted with water suitable for the purpose of maintaining the essential composition and quality factors of the juice.

2. ESSENTIAL COMPOSITION AND QUALITY FACTORS

2.1 Soluble Solids and Acidity

The soluble lemon solids content of lemon juice shall be not less than 6% m/m as determined by refractometer at 20 °C, uncorrected for acidity and read as °Brix on the International Sucrose Scales. The total titratable acidity of the lemon juice shall not be less than 4.5% m/m expressed as anhydrous citric acid.

2.2 Ethanol Content

The ethanol content shall not exceed 3 g/kg.

2.3 Essential Oils

The essential oils content shall not exceed 0.5 ml/kg.

2.4 Organoleptic Properties

The product shall have the characteristic colour, aroma and flavour of lemon juice. Natural volatile lemon juice components may be restored to any lemon juice from which natural volatile lemon juice components have been removed.

2.5 Use of Concentrates

The addition of concentrate to juice is permitted. Only concentrate from lemon (Citrus limon Burm. f.) may be used.

Formerly CAC/RS 47-1971.

² For the purpose of this standard and at this time preservation by physical means does not include ionizing radiation.

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3. **CONTAMINANTS**

		Maximum level
3.1	Arsenic (As)	0.2 mg/kg
3.2	Lead (Pb)	$1~{ m mg/kg}^{-1}$
3.3	Copper (Cu)	5 mg/kg
3.4	Zinc (Zn)	5 mg/kg
3.5	Iron (Fe)	15 mg/kg
3.6	Tin (Sn)	$250~{ m mg/kg}^{-1}$
3.7	Sum of copper, zinc and iron	20 mg/kg
3.8	Sulphur dioxide	10 mg/kg

4. HYGIENE

- 4.1 It is recommended that the products covered by the provisions of this standard be prepared in accordance with the Recommended International Code of Hygienic Practice for Canned Fruit and Vegetable Products (Ref. No. CAC/RCP 2-1969) and the General Principles of Food Hygiene (Ref. No. CAC/RCP 1-1969, Rev. 2-1985) recommended by the Codex Alimentarius Commission.
- 4.2 When tested by appropriate methods of sampling and examination, the product:
 - (a) shall be free from microorganisms capable of development under normal conditions of storage; and
 - (b) shall not contain any substances originating from microorganisms in amounts which may represent a hazard to health.

5. WEIGHTS AND MEASURES

5.1 Fill of Containers

5.1.1 Minimum Fill

The lemon juice shall occupy not less than 90% v/v 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. MARKING OR LABELLING

6.1 Containers Destined for the Final Consumer

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

6.1.1 The Name of the Food

¹ These limits remain under review.

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The name of the product shall be "lemon juice".

6.1.2 List of Ingredients

6.1.2.1 A complete list of ingredients shall be declared on the label in descending order of proportion, except that water added for reconstitution of the juice in accordance with Section 1 need not be declared.

6.1.2.2 In the case of lemon juice made from concentrate, the fact of reconstitution shall be declared in the list of ingredients as the first ingredient as follows: "lemon juice made from concentrate" or "reconstituted lemon juice" or "lemon juice made from concentrated lemon juice".

6.1.3 Additional Requirements

The following additional specific provisions shall apply:

- 6.1.3.1 No fruit or fruit juice may be represented pictorially on the label except lemons or lemon juice.
- 6.1.3.2 Where lemon juice requires to be kept under conditions of refrigeration, there shall be information for keeping and, if necessary, thawing of the product.

6.1.4 Date Marking

The "date of minimum durability" shall be declared by the month and year in uncoded numerical sequence except that for products with a shelf-life of more than 18 months the year will suffice.

6.1.5 Storage Instructions

In addition to the date, any special conditions for the storage of the food shall be indicated if the validity of the date depends thereon.

Where practicable, storage instructions should be in close proximity to the date marking.

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

In the case of lemon juice in bulk, the information required by Section 6.1 shall either be given on the container or in accompanying documents, except that the name of the product and the name and address of the manufacturer or packer should appear on the container. However, the name and address of the manufacturer or packer may be replaced by an identification mark, provided that such a mark is clearly identifiable with the accompanying documents.

7. METHODS OF ANALYSIS AND SAMPLING

See Part VI of this publication.