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Sušene breskve - Specifikacija

Dried peaches -- Specification

Pêches séchées -- Spécifications

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International Standard



7703

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Dried peaches — Specification

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7703 was prepared by Technical Committee ISO/TC 34, *Agricultural food products*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Dried peaches — Specification

1 Scope

This International Standard specifies requirements for dried peaches obtained from fruits of the peach tree [*Prunus persica* (Linnaeus) Batsch], for human consumption.

2 Definitions

For the purpose of this International Standard, the following definitions apply.

2.1 pest-infested dried peaches: Dried peaches damaged by insect infestation and/or mite infestation.

2.2 spoiled dried peaches: Dried peaches damaged by bruises, or darkened in colour or showing hard tissue or breakage and crushing or smears, or any other indications of any disease.

2.3 immature dried peaches: Dried peaches obtained from unripe peaches, having poor colour and flavour, undesirable appearance and high shrinkage ratio.

3 General requirements

Dried peaches are the sun-dried or artificially dried tree-ripened fruits of *Prunus persica* (Linnaeus) Batsch. Dried peaches are prepared from peach fruits having a suitable stage of ripeness that have been peeled or left with the skin on, and cut into halves or segments. They should be sound and clean.

4 Specific requirements

4.1 Grading

The dried peaches may be graded on the basis of colour, according to whether they are peeled and the presence of defects and extraneous matter. They may also be graded into various

sizes according to their diameter (in the case of halves) and width or length (in the case of segments).

4.2 Odour and taste

Dried peaches shall have an odour and taste characteristic of the variety. They shall be free from foreign odour.

However, a slight odour of sulfur dioxide (SO₂) is not considered to be foreign.

4.3 Freedom from insects, moulds, etc.

Dried peaches shall be free from living insects and moulds, and shall be practically free from dead insects, insect fragments and rodent contamination visible to the naked eye (corrected, if necessary, for abnormal vision) or with such magnification as may be necessary in any particular case. If the magnification exceeds X 10, this fact shall be stated in the test report.

4.4 Extraneous matter

The proportion of extraneous matter such as dirt, pieces of skin (only for peeled dried peaches), stem, leaf, pieces of pit and other foreign matter, adhering to the flesh or not, shall not exceed the values given in the table, according to the grade.

4.5 Pest-infested and spoiled dried peaches

The proportion of pest-infested and spoiled dried peaches shall not exceed the values given in the table, according to the grade.

4.6 Colour

The colour of dried peaches shall be light, sufficiently attractive and characteristic of the variety with little browning of the cut edges, or light brown.

4.7 Moisture content

The moisture content of dried peaches shall not exceed 20 % (m/m).

4.8 Sulfur dioxide content

The residual quantity of sulfur dioxide shall not exceed 2 000 mg/kg.

5 Sampling

Methods of sampling dry and dried fruits and vegetable products will form the subject of a future International Standard.

6 Methods of test

Test samples of dried peaches for conformity of the product to the requirements of the table by the method of test specified in annex A. Determine the sulfur dioxide content (4.8) in accordance with annex B and the moisture content (4.7) in accordance with annex C.

7 Packing and marking

7.1 Packing

Dried peaches should be packed in clean and sound containers made of a material which does not affect the product. If wooden boxes are used, they should be lined with a suitable paper.

For direct consumption, small consumer packages may be used. The quantities packed in such packages may be 0,5, 1, 0

and 2,5 kg net mass, and if required, more or less. A suitable number of such small packages shall be placed in large wooden or cardboard cases.

The size of the packages and the number of small packages packed in a case shall be subject to agreement between the purchaser and the vendor. However, the mass of the large containers or cases shall not be more than 25 kg.

7.2 Marking

The container and case shall be marked or labelled with the following particulars :

- a) name of the product or variety, and the trade mark or brand name, if any;
- b) name and address of the producer or packer;
- c) batch or code number;
- d) net mass or gross mass (according to the request of the importing country);
- e) grade;
- f) producing country;
- g) any other marking required by the purchaser, such as the year of harvest and date of packing (if known);
- h) if possible, a reference to this International Standard.

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Table — Requirements by grade

Grade	Pest infested % max.	Spoiled % max.	Immature fruits % max.	Extraneous matter % max.	Colour	Deviations from the main colour % max.
I	0,25	5	2	0,25	Light, characteristic of the variety with little browning of the edges	3
II	0,50	10	4	0,50	Light brown	6

Annex A

Determination of the proportion of pest-infested and spoiled dried peaches, immature fruits, extraneous matter and deviations from the main colour

A.1 Principle

Visual inspection of a test portion of dried peaches and physical separation of pest-infested and spoiled dried peaches, immature fruits, extraneous matter and dried peaches which show deviations from the main colour.

A.2 Procedure

Weigh, to the nearest 0,02 g, a test portion of about 500 g. Separate the pest-infested and spoiled dried peaches, immature fruits, extraneous matter and the dried peaches which show deviations from the main colour carefully by hand or using tweezers.

Weigh, to the nearest 0,02 g, each of the categories separately.

A.3 Expression of results

The content, expressed as a percentage by mass, of each category, is equal to

$$\frac{m_1}{m_0} \times 100$$

where

m_0 is the mass, in grams, of the test portion;

m_1 is the mass, in grams, of the relevant category (see clause A.2).

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Annex B

Determination of sulfur dioxide — Tetrachloromercurate(II) *p*-rosaniline spectrometric method

B.1 Definition

sulfur dioxide content of dried peaches : The quantity of sulfur dioxide determined in accordance with the method specified in this annex.

It is expressed in milligrams per kilogram.

B.2 Principle

Colour development by the addition of *p*-rosaniline solution to a test solution of dried peach which has been treated with tetrachloromercurate(II) solution. Measurement of the absorbance of the test solution at 550 nm against a blank.

B.3 Reagents

During the analysis, use only reagents of recognized analytical grade and only distilled water or water of equivalent purity.

B.3.1 Sulfuric acid (H_2SO_4), 0,25 mol/l solution.

B.3.2 Sodium hydroxide (NaOH), 0,5 mol/l solution.

B.3.3 Formaldehyde (HCHO), 0,015 % (*m/m*) solution.

Prepare from 40 % (*m/m*) formaldehyde by diluting in two steps : 10 → 1000; and 75 → 2000.

B.3.4 Sodium tetrachloromercurate(II) solution.

WARNING — Mercury(II) salts are very toxic, particularly in aqueous solution. Use skin and respiratory protection when dry mercury(II) salts are used. Use skin protection when handling concentrated solutions of mercury(II) salts.

Place 23,4 g of sodium chloride (NaCl) and 54,3 g of mercury(II) chloride (HgCl_2) in a 2 000 ml one-mark volumetric flask (B.4.3). Dissolve in about 1 900 ml of water, make up to the mark with water and mix.

B.3.5 Hydrochloric acid-bleached *p*-rosaniline hydrochloride [$\text{C}_{20}\text{H}_{21}\text{N}_3\text{O}\cdot\text{HCl}$, bis (4-aminophenyl) 4-amino-3-tolyl hydroxymethane] solution.

Place 100 mg of *p*-rosaniline hydrochloride and 200 ml of water in a 1 000 ml one-mark volumetric flask. Add 160 ml of hydrochloric acid (diluted 1 + 1) and make up to the mark with water. Allow to stand for 12 h before use.

B.3.6 Sulfur dioxide (SO_2), standard solution, corresponding to about 100 mg of SO_2 per litre.

Dissolve about 170 mg of sodium hydrogensulfite (NaHSO_3) in water in a 1 000 ml one-mark volumetric flask, make up to the mark with water and mix. Standardize with an iodine standard reference solution [$c(\text{I}) = 0,01 \text{ mol/l}$] before use.

1 ml of this standard solution contains about 100 μg of SO_2 .

B.4 Apparatus

Usual laboratory equipment and in particular

B.4.1 Spectrometer, with selectors for continuous or discontinuous variation, suitable for measurement of absorbance at 550 nm.

B.4.2 Fruit chopper, made of material which does not absorb moisture.

B.4.3 One-mark volumetric flasks, short-necked, of capacities 100 ml, 1 000 ml and 2 000 ml.

B.4.4 Blender, of capacity at least 300 ml.

B.4.5 Pipette, free-running, of capacity 10 ml, calibrated.

B.5 Procedure

B.5.1 Preparation of test sample

Take approximately 50 g of dried peach and pass it through a fruit chopper (B.4.2) three times, mixing thoroughly after each grinding.

B.5.2 Test portion and preparation of test solution

Weigh, to the nearest 0,02 g, about 10 g of the test sample (B.5.1) and transfer to a blender (B.4.4) with 290 ml of water. Cover and blend for 2 min. Withdraw a 10 ml aliquot from the bottom of the blender with a pipette (B.4.5) and transfer to a 100 ml one-mark volumetric flask (B.4.3) containing 2 ml of sodium hydroxide (B.3.2). Swirl and mix for 15 to 30 s. Add 2 ml of sulfuric acid (B.3.1) and 20 ml of sodium tetrachloromercurate(II) (B.3.4), and make up to the mark with water.

B.5.3 Blank test

Carry out a blank test in parallel with the determination, by the same procedure, using the same quantities of all reagents as in

the determination, but replacing the aliquot (B.5.2) with 10 ml of water.

B.5.4 Calibration

B.5.4.1 Preparation of the set of calibration solutions

Add 5 ml of sodium tetrachloromercurate(II) (B.3.4) to a series of 100 ml one-mark volumetric flasks (B.4.3). Then add 0 (the zero member); 1,0; 2,0; 3,0; 4,0 and 5,0 ml of sulfur dioxide standard solution (B.3.6). Make up to the mark with water and mix.

B.5.4.2 Colour development

Transfer 5,0 ml volumes of the calibration solutions (B.5.4.1) to 200 ml test tubes containing 5 ml of *p*-rosaniline (B.3.5). Add 10 ml of formaldehyde (B.3.3), mix and leave for 30 min at 22 °C.

B.5.4.3 Spectrometric measurements

Measure the absorbance at 550 nm against the zero member.

B.5.4.4 Plotting the calibration graph

Plot a graph of absorbance against mass of sulfur dioxide.

B.5.5 Determination

Carry out the determination in duplicate.

B.5.5.1 Colour development

Proceed in accordance with B.5.4.2, but using 2 ml of test solution (B.5.2) instead of the calibration solutions.

B.5.5.2 Spectrometric measurements

Measure the absorbance at 550 nm against the blank (B.5.3).

NOTE — If the same spectrometer cell is used for successive samples, clean it between runs with hydrochloric acid (diluted 1 + 1) and water.

B.6 Expression of results

B.6.1 Calculation

Convert the absorbance measurements (B.5.5.2) to mass of sulfur dioxide by means of the calibration graph (B.5.4.4). Convert the results to milligrams per kilogram of sample.

B.6.2 Repeatability

The difference between the results of two determinations carried out simultaneously or in rapid succession by the same analyst using the same apparatus and in the same laboratory on the same test sample shall not exceed 5 % of the mean value.

B.7 Test report

The test report shall show the method used and the results obtained. It shall also mention any operating details not specified in this annex or regarded as optional, together with details of any incidents likely to have influenced the results.

The test report shall include all the information necessary for the complete identification of the sample.