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Item 5 of the provisional agenda

**Specialized Section on Standardization
of Dry and Dried Produce****Revised standard for blanched almond kernels****Submitted by the secretariat***Summary*

The following document is submitted to the Working Party for adoption as the revised United Nations Economic Commission for Europe (UNECE) standard (DDP-21) concerning the marketing and commercial quality control of blanched almond kernels.

The document is based on the document ECE/TRADE/C/WP.7/2009/20 adopted by the Working Party at its sixty-third session in 2009. It incorporates revisions agreed by the Specialized Section on Standardization of Dry and Dried Produce (GE.2) as contained in documents ECE/CTCS/WP.7/GE.2/2024/5 and ECE/CTCS/WP.7/GE.2/2024/2.



UNECE standard DDP-21 concerning the marketing and commercial quality control of blanched almond kernels

I. Definition of produce

This standard applies to whole sweet blanched almond kernels of varieties (cultivars) grown from *Prunus amygdalus* Batsch, syn. *Prunus dulcis* (Mill.) D.A. Webb, here onwards referred to as “blanched almond kernels”, from which the tegument or skin of the kernel (episperm) has been removed, intended for direct consumption or for food when intended to be mixed with other products for direct consumption without further processing.

This standard does not apply to blanched almond kernels that are processed by salting, sugaring, flavouring, or roasting or for industrial processing.

II. Provisions concerning quality

The purpose of the standard is to define the quality requirements of blanched almond kernels, after preparation and packaging.

However, if applied at stages following export or dispatch, the holder/seller shall be responsible for observing the requirements of the standard. The holder/seller of products may not display such products or offer them for sale, or deliver or market them in any manner other than in conformity with this standard.

A. Minimum requirements¹

In all classes, subject to the special provisions for each class and the tolerances allowed, the blanched almond kernels must display the following characteristics observed by the naked eye or corrected 20/20 vision² where appropriate:

- intact; however, slight superficial damage is not considered as a defect
- sound; produce affected by rotting or deterioration such as to make it unfit for human consumption is excluded
- clean; practically free of any visible foreign matter
- free of adhering skin exceeding an aggregated area of 6 mm in diameter
- sufficiently developed; no shrunken and shrivelled kernels which are extremely flat and wrinkled, or with dehydrated, dried out or tough portions affecting more than 25 per cent of the kernel
- free from blemishes, areas of discoloration or spread stains in pronounced contrast with the rest of the kernel affecting in aggregate no more than 10 per cent of the surface of the kernel
- well formed (see specific tolerances for twins or doubles)
- free from mould filaments
- free from living pests, whatever their stage of development
- free from damage caused by pests, including the presence of dead insects and/or mites, their debris or excreta
- free of abnormal external moisture

¹ Definitions of terms and defects are listed in Annex III of the Standard Layout – Recommended terms and definitions of defects for standards of dry (inshell nuts and nut kernels) and dried produce <https://unece.org/trade/wp7/DDP-Standards>.

² Loupe, binocular or other magnifying equipment should not be used when assessing defects.

- free of foreign smell and/or taste
- free from rancidity
- free from gummy resinous substance exceeding an aggregate area of 7 mm in diameter
- free from brown spots (slightly depressed brown spots) exceeding an aggregate area of 4 mm in diameter.

The condition of the blanched almond kernels must be such as to enable them:

- to withstand transportation and handling
- to arrive in satisfactory condition at the place of destination.

B. Moisture content³

The blanched almond kernels shall have a moisture content not exceeding 6.5 per cent.

C. Classification

In accordance with the defects allowed in section “IV. Provisions concerning tolerances”, blanched almond kernels are classified into the following classes:

“Extra” Class, Class I, Class II

The defects allowed must not affect the general appearance of the produce as regards quality, keeping quality and presentation in the package.

III. Provisions concerning sizing

Sizing of blanched almond kernels is optional.

When sized, size is determined by one of the following:

- sizing and screening are determined by the minimum diameter of the equatorial section of the blanched almond kernel, by means of round-holed or elongated-holed screens.
- count, is determined by the number of the blanched almond kernels per 100 grams or per ounce (28.3495g). When a range in count is specified, the blanched almond kernels shall be fairly uniform⁴ in size, and the average count shall be within the range specified.

Sizing is expressed by an interval defined by a minimum and maximum size in millimetres, which must not exceed 2 mm of difference. When a range in count is specified, the blanched almond kernels shall be fairly uniform⁴ in size, and the average count shall be within the range specified.

Screening is expressed by a reference to a minimum size, in millimetres, followed by the words “and plus” or other equivalent wording, or by a reference to a maximum number of kernels per 100 grams or per ounce, followed by the words “and less” or other equivalent wording.

³ The moisture content is determined by Method 1 and/or 2 in Annex II of the Standard Layout for UNECE Standards on Dry and Dried Produce. The laboratory reference method shall be used in cases of dispute.

⁴ Fairly uniform in size means that, in a representative sample, the weight of 10 per cent, by count, of the largest whole kernels shall not exceed 1.7 times the weight of the 10 per cent, by count, of the smallest whole kernels.

IV. Provisions concerning tolerances

At all marketing stages, tolerances in respect of quality and size shall be allowed in each lot for produce not satisfying the minimum requirements of the class indicated.

<i>Defects allowed</i>	<i>Tolerances allowed, percentage of defective blanched almond kernels by weight</i>		
	<i>“Extra”</i>	<i>Class I</i>	<i>Class II</i>
(a) Tolerances for blanched almond kernels not satisfying the minimum requirements	5	10	15
Of which no more than:			
Not sufficiently developed, shrunken and shrivelled	1	2	4
Mouldy	0.5	0.5	1
Rancid or damaged by pests, rotten or deteriorated	3	5	10
Gummy, brown spot, blemishes and discolouration	3	5	10
Bitter almonds (by count or by weight)	1	1	2
Split, broken and halves ⁵	5	7	10
Pieces ⁶	2	3	5
Living pests	0	0	0
(b) Size tolerances (if sized)			
For produce not conforming to the size indicated, in total	20	20	20
(c) Tolerances for other defects			
Heat damage	3	6	10
Extraneous matter (of organic origin) such as-loose skins, shells, shell fragments, fragments of hull, dust (by weight) and foreign matter (of inorganic origin) such as stones, metal, and glass (by weight)	0.15	0.25	0.25
Blanched almonds belonging to other varieties and/or commercial types than that indicated	10	10	20
Chipped and scratched ⁷	5	10	20
Kernels with residues of adhering skin	2	3	6
Doubles or twins ⁸	10	15	20

⁵ Split or broken kernels are mechanically damaged kernels from which more than one quarter of the kernel is missing. A half is a longitudinally split almond kernel of which the two halves (cotyledons) are separated.

⁶ Pieces are small fragments of blanched almond kernels which pass through a 10 mm round meshed sieve.

⁷ Chipped is a mechanically damaged kernel from which less than one quarter of the kernel is missing. Scratched is a kernel with mechanical marks on its surface; it is not considered as a defect scratched areas of less, in aggregate, than the equivalent of a circle of 3 mm in diameter.

⁸ When the marking indicates “without doubles” or “without twins”, these tolerances shall be reduced to 1 per cent for Extra Class and 3 per cent for Class I and Class II.

V. Provisions concerning presentation

A. Uniformity

The contents of each package⁹ must be uniform and contain only blanched almond kernels of the same origin, quality, size (if sized), variety or commercial type (if indicated), crop year (if indicated).

The visible part of the contents of the package must be representative of its entire contents.

B. Packaging

Blanched almond kernels must be packed in such a way as to protect the produce properly.

The materials used inside the package must be clean and of a quality such as to avoid causing any external or internal damage to the produce. The use of materials, particularly of paper or stamps bearing trade specifications, is allowed, provided the printing or labelling has been done with non-toxic ink or glue.

Packages must be practically free of all foreign and extraneous matter in accordance with the table of tolerances in section “IV. Provisions concerning tolerances”.

VI. Provisions concerning marking

Each package¹⁰ must bear the following particulars in letters grouped on the same side, legibly and indelibly marked and visible from the outside:

A. Identification

Packer and/or dispatcher:

Name and physical address (e.g. street/city/region/postal code and, if different from the country of origin, the country) or a code mark officially recognized by the national authority¹¹ if a country applying such a system is listed in the UNECE Code Mark Registry.

B. Nature of produce

- “Blanched almond kernels” or “Blanched almonds”
- Name of the variety and/or commercial type (optional)
- Additional specifications (“without doubles” or “without twins”, etc., when appropriate).

C. Origin of produce

- Country of origin¹² and, optionally, district where grown or national, regional or local place name.

⁹ The term “packages” is defined in Annex III of the Standard Layout for UNECE Standards on Dry and Dried Produce.

¹⁰ These marking provisions do not apply to sales packages presented in packages.

¹¹ The national legislation of a number of countries requires the explicit declaration of the name and address. However, in cases where a code mark is used, the reference “packer and/or dispatcher” (or equivalent abbreviations) must be indicated in close connection with the code mark, and the code mark should be preceded with the ISO 3166 alpha country code of the recognizing country, if not the country of origin.

¹² The full or a commonly used name should be indicated.

D. Commercial specifications

- Class
- Size (if sized); expressed in accordance with section III:
- Crop year (optional)¹³
- “Best before” followed by the date (optional).

E. Official control mark (optional)

Adopted 2009

Last revised 2024

Aligned with the Standard Layout 2022

¹³ Reservation by France requesting that the crop year be marked.