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**SPECIALIZED SECTION ON STANDARDIZATION OF
DRY AND DRIED PRODUCE**

Texts for adoption as revised/new UNECE standards

Pistachio kernels and peeled pistachio kernels

Note by the secretariat

This text is submitted to the Working Party for approval as a new Standard for Pistachio kernels and peeled pistachio kernels.

It is based on document ECE/TRADE/C/WP.7/2008/15, the text of which was agreed upon at the June 2009 session of the Specialized Section on Standardization of Dry and Dried Produce.

This document is being issued pursuant to paragraph 5 of the Working Party's Terms of Reference.

UNECE STANDARD DDP-10
concerning the marketing and commercial quality control of

PISTACHIO KERNELS AND PEELED PISTACHIO KERNELS

I. DEFINITION OF PRODUCE

This standard applies to pistachio kernels and peeled pistachio kernels from varieties (cultivars) grown from pistachio (*Pistacia vera* L.) of which the protective pericarp 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 pistachio kernels and peeled pistachio kernels that are processed by salting, sugaring, flavoring, or roasting or for industrial processing.

II. PROVISIONS CONCERNING QUALITY

The purpose of the standard is to define the quality requirements of pistachio kernels and peeled pistachio kernels at the export-control stage, after preparation and packaging.

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

A. Minimum requirements¹

In all classes, subject to the special provisions for each class and the tolerances allowed, the pistachio kernels and peeled pistachio kernels must display the following characteristics:

- 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 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 from mould filaments visible to the naked eye
- free from rancidity
- free of abnormal external moisture

¹ Definitions of terms and defects are listed in annex III of the Standard Layout – Recommended terms and definition of defects for standards of dry (Inshell Nuts and Nut Kernels) and dried produce <http://www.unece.org/trade/agr/standard/dry/StandardLayout/StandardLayoutDDP_e.pdf>.

- free of foreign smell and/or taste.

The condition of the pistachio kernels and peeled pistachio 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 content²

The pistachio kernels and peeled pistachio 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”,

Pistachio kernels are classified into the following classes:

“Extra” Class, Class I, Class II.

Peeled pistachio kernels are classified into the following classes:

“Extra” Class, Class I.

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

D. Colour Classification

Peeled pistachio kernels may be classified according to colour. In case of colour classification, four colour types are defined below:

(i) Green

The inside longitudinal section must be green or dark green in colour. Not more than 25 per cent of kernels, by count, may display light green and/or yellow sections.

(ii) ~~Gulie (Light Green)~~ Yellowish Green

The inside longitudinal section must be ~~light~~ yellowish green in colour. Not more than 40 per cent of kernels, by count, may display yellow sections.

² The moisture content is determined by one of the methods given in annex I of the Standard Layout – Determination of the moisture content for dry produce.
<http://www.unece.org/trade/agr/standard/dry/StandardLayout/StandardLayoutDDP_e.pdf>. The laboratory reference method shall be used in cases of dispute.

(iii) Yellow

The inside longitudinal section of the kernel must display a predominantly yellow colour. Not more than 25 per cent of kernels, by count, may display green and/or light green colour.

(iv) Mixed Colour

Lots not included in one of the above categories fall into this category.

III. PROVISIONS CONCERNING SIZING

Sizing of pistachio kernels and peeled pistachio kernels is optional. When sized, sizing is done by the number of kernels per 100 grams or per ounce.

IV. PROVISIONS CONCERNING TOLERANCES

Tolerances in respect of quality and size shall be allowed in each lot for produce not satisfying the minimum requirements of the class indicated.

A. Quality tolerances

Defects allowed ³	Tolerances allowed percentage of the defective produce, by weight ⁴				
	Pistachio kernels			Peeled pistachio kernels	
	Extra	Class I	Class II	Extra	Class I
(a) Tolerances for pistachio kernels and peeled pistachio kernels not satisfying the minimum requirements, of which no more than:	5	6	8	5	8
- Not sufficiently developed, shrunken and shriveled,	4	4.5	5.5	4	6.5
of which dark shrivelled kernels no more than:	-	-	-	3	3
- Mouldy	0.5	0.5	1.0	0.5	0.5
- Rancid or damaged by rotting	0.5	1	1.5	0.5	1
- Insect damage	1.5	2	2.5	1	1.5
- Living pests	0	0	0	0	0

³ Standard definitions of the defects are listed in the annex of this document.

⁴ A minimum sample unit of one kilogram is required for the test.

Defects allowed ³	Tolerances allowed percentage of the defective produce, by weight ⁴				
	Pistachio kernels			Peeled pistachio kernels	
	Extra	Class I	Class II	Extra	Class I
(b) Size Tolerances					
- For produce not conforming to the size indicated, if sized	10	10	10	10	10
(c) Tolerances for other defects					
- Foreign matter, loose shells, shell fragments, fragments of hull, dust	0.1	0.1	0.2	-	-
- Halves (split) and broken, if wholes are specified, of which broken no more than:	15 10	20 10	25 15	20 5	30 5
- Wholes, if halves or broken are specified	15	20	25	20	20
- Pistachio kernels and peeled pistachio kernels belonging to other varieties or commercial types other than that indicated	10	10	10	10	10
- Peeled pistachio kernels belonging to other colours than that indicated	-	-	-	5	20

V. PROVISIONS CONCERNING PRESENTATION

A. Uniformity

The contents of each package must be uniform and contain only pistachio kernels and peeled pistachio kernels of the same origin, crop year, quality, size (if sized) and variety or commercial type (if indicated) and colour type (if specified for peeled pistachio kernels).

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

B. Packaging

Pistachio kernels and peeled pistachio kernels must be packed in such a way as to protect the produce properly. For green pistachios, special materials (light sensitivity bags) may be used for the protection of the colour of the kernels.

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 free of all foreign matter in accordance with the table of tolerances in section “IV. Provisions concerning tolerances”.

C. Presentation

Pistachio kernels and peeled pistachio kernels must be presented in solid or flexible containers. When using textile or mesh bags, special attention should be paid to protect the produce against external moisture and contamination. All sales packages within each package must be of the same weight.

VI. PROVISIONS CONCERNING MARKING

Each package⁵ 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 authority⁶.

B. Nature of produce

- “Pistachio kernels” or “peeled pistachio kernels”
- name of the variety and/or commercial type (optional)

C. Origin of produce

- country of origin and, optionally, district where grown or national, regional or local place name.

D. Commercial specifications

- class

⁵ Package units of produce prepacked for direct sale to the consumer shall not be subject to these marking provisions, but shall conform to national requirements. However, the markings referred to shall in any event be shown on the transport packaging containing such package units.

⁶ 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.

- colour type (for peeled pistachio kernels, in case of colour classification)
- size (if sized); expressed as number of kernels per 100 grams or per ounce
- crop year (optional)⁷
- “Best before” followed by the date (optional).

E. Official control mark (optional)

Adopted 2009

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⁷ Reservation by France requesting that the crop year be marked.