



Food and Agriculture
Organization of the
United Nations



World Health
Organization

CODEX
ALIMENTARIUS
INTERNATIONAL FOOD STANDARDS

CODEX ALIMENTARIUS
STANDARD

**STANDARD FOR SPICES DERIVED
FROM DRIED OR DEHYDRATED FRUITS
AND BERRIES – SMALL CARDAMOM**
CXs 357-2024



ADOPTED 2024

CXS 357-2024

History of the standard

This publication was reformatted and published in 2026.

1 Scope

This standard applies to dried or dehydrated fruits and berries – small cardamom as defined in Section 2.1: “Product definition” below, offered for direct consumption, as an ingredient in food processing or for repackaging if required. It excludes the product for industrial processing.

2 Description

2.1 Product definition

Dried or dehydrated small cardamom is a product obtained from the dried fruits of the plant *Elettaria cardamomum* (L.) Maton of Zingiberaceae family as described in Table 1.

Table 1. Common, trade and scientific name of dried small cardamom

Common name	Trade name	Scientific name
Small cardamom	Cardamom, Green cardamom	<i>Elettaria cardamomum</i> (L.) Maton

2.2 Styles

Dried or dehydrated small cardamom may be:

- whole unopened capsules/pods: intact capsules/pods that have not lost seed;
- opened capsules/pods: capsules/pods with opening, not exceeding one-third of the suture's length and containing seeds;
- seeds: seeds obtained after opening of the capsules/pods;
- powdered seeds: powder obtained from grinding cardamom seeds; or
- powdered whole capsule/pods: powder obtained from grinding whole/open capsules/pods with seeds.

Other styles distinctly different from those five are allowed, provided they are labelled accordingly.

2.3 Sizing (optional)

3 Essential composition and quality factors

3.1 Composition

The product as described in Section 2: “Description” above shall conform to the requirements contained in Annex I.

3.2 Quality factors

3.2.1 Odour, flavour and colour

The product shall have a characteristic odour, flavour and colour, which can vary depending on geoclimatic factors/conditions, and shall be free from any foreign odour, flavour, and colour especially from rancidity and mustiness.

3.2.2 Chemical and physical characteristics

Dried or dehydrated small cardamom shall comply with the requirements specified in Annex I (Table A1 – Chemical characteristics and Table A2 – Physical characteristics). The defects allowed must not affect the general appearance of the product regarding its quality, keeping quality and presentation in the package.

3.2.3 Classification (optional)

If traded as classified, the provisions in Annex I shall apply as minimum requirements.

4 Food additives

Anticaking agents listed in Table 3 of the *General standard for food additives* (CXS 192-1995)¹ are acceptable for use in ground/powdered form of product conforming to this standard.

5 Contaminants

The products covered by this standard shall comply with the maximum levels of the *General standard for contaminants and toxins in food and feed* (CXS 193-1995),² the *Code of practice for the prevention and reduction of mycotoxins in spices* (CXC 78-2017)³ and other relevant Codex texts.

The products covered by this standard shall comply with the maximum residue limits for pesticides established by the Codex Alimentarius Commission.

6 Hygiene

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 *General principles of food hygiene* (CXC 1-1969),⁴ the *Code of hygienic practice for low-moisture foods* (CXC 75-2015)⁵ Annex III on spices and dried culinary herbs, and other relevant Codex texts.

The products should comply with any microbiological criteria established in accordance with the *Principles and guidelines for the establishment and application of microbiological criteria related to foods* (CXG 21-1997).⁶

7 Weights and measures

Containers shall be as full as practicable without impairment of quality and shall be consistent with a proper declaration of contents for the product.

8 Labelling

The products covered by the provisions of this standard shall be labelled in accordance with the *General standard for the labelling of pre-packaged foods* (CXS 1-1985).⁷ In addition, the following specific provisions apply:

8.1 Name of the product

- a) The common name of the product shall be as described in Section 2.1: “Product definition”.
- b) The name of the product may include an indication of the style as described in Section 2.2: “Styles”.
- c) Trade name, variety or cultivar may be listed on the label.

8.2 Country of origin and country of harvest

- a) Country of origin shall be declared.
- b) Country of harvest (optional).
- c) Region of harvest and year of harvest (optional).

8.3 Labelling of non-retail containers

The labelling of non-retail containers should be in accordance with the *General standard for the labelling of non-retail containers of foods* (CXS 346-2021).⁸

9 Methods of analysis and sampling

For checking the compliance with this standard, the methods of analysis and sampling contained in the *Recommended methods of analysis and sampling* (CXS 234-1999)⁹ relevant to the provisions in this standard, shall be used.

Table A1 – Chemical characteristics for dried or dehydrated small cardamom

Product name	Style	Total ash on dry basis % w/w (max)	Acid insoluble ash on dry basis % w/w (max)	Moisture content % w/w (max)	Volatile oil on dry basis ml/100 g (min)
Small cardamom	Whole ^a	9.5	2.5	13	3.5 2.5 ^b
	Seeds	9.5	3.0	13	3.5
	Powdered seeds	8	3.0	11	3.0
	Powdered capsules with seeds	10	2.5	12	2.7

Notes:^a Includes opened capsules/pods.^b For opened capsules/pods.

Table A2 – Physical characteristics for dried or dehydrated small cardamom

Product name	Style	Empty and malformed capsules/pods by count/100 capsules (max) ^a	Immature and shrivelled capsules % w/w (max) ^b	Light seeds % w/w (max) ^c	Insect defiled/infested % w/w (max)	Extraneous matter ^d % w/w (max)	Foreign matter ^e % w/w (max)	Whole dead insects (by count) /100 g (max)	Live insects (by count) /100 g (max)	Mammalian excreta mg/kg (max)	Other excreta ^f mg/kg, (max)	Mould visible % w/w (max)	Other factors
Small cardamom	Whole unopened capsule/pods	5	7	N/A	1	5	0.5	4	0	6.6	2.2	1	Tolerance 15% w/w (max) ^g
	Whole opened capsule/pods	10	7	N/A	1	5	0.5	4	0	6.6	2.2	1	Lot composition – Minimum of 60% of opened pods
	Seeds	N/A	N/A	5	N/A	2	N/A	4	0	6.6	2.2	1	N/A
	Powdered seeds	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A
	Powdered Capsules with seeds	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A

Notes:

N/A: Not applicable, means that this form of the above product has not been evaluated for this provision, and currently we do not have values. N/A does not refer to zero.

^a Empty and malformed capsules: capsules which have no seeds or are scantily filled with seeds.

^b Immature and shrivelled capsules: capsules which are not fully developed.

^c Light seeds include seeds that are brown or red in colour, and broken, immature and shrivelled seeds.

^d Vegetative matter associated with the plant from which the product originates but not accepted as part of the final product.

^e Any visible/detectable objectionable foreign matter or material not usually associated with the natural components of the spice plant, such as sticks, stones, burlap bagging, metal, etc.

^f Excreta from other animals, such as reptiles and birds.

^g Presence of opened capsules/pods in unopened capsules/pods.

Referenced texts

- 1 *General standard for food additives* (CXS 192-1995).
- 2 *General standard for contaminants and toxins in food and feed* (CXS 193-1995).
- 3 *Code of practice for the prevention and reduction of mycotoxins in spices* (CXC 78-2017).
- 4 *General principles of food hygiene* (CXC 1-1969).
- 5 *Code of hygienic practice for low-moisture foods* (CXC 75-2015).
- 6 *Principles and guidelines for the establishment and application of microbiological criteria related to foods* (CXG 21-1997).
- 7 *General standard for the labelling of pre-packaged foods* (CXS 1-1985).
- 8 *General standard for the labelling of non-retail containers of foods* (CXS 346-2021).
- 9 *Recommended methods of analysis and sampling* (CXS 234-1999).

Codex Alimentarius

A collection of international food standards developed to protect consumer health and ensure fair practices in the food trade. Codex standards are adopted by the Codex Alimentarius Commission, an intergovernmental body with 189 Members, established by FAO and WHO. The standards are recognized by the World Trade Organization as the benchmark for the safety of internationally traded food.

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