

C O D E X A L I M E N T A R I U S

INTERNATIONAL FOOD STANDARDS



Food and Agriculture
Organization of
the United Nations



World Health
Organization

E-mail: codex@fao.org - www.codexalimentarius.org

STANDARD FOR BRIE

CXS 277-1973

Formerly CODEX STAN C-34-1973. Adopted in 1973. Revised in 2007.

Amended in 2008, 2010, 2018, 2019.

1. SCOPE

This Standard applies to Brie intended for direct consumption or for further processing in conformity with the description in Section 2 of this Standard.

2. DESCRIPTION

Brie is a soft surface ripened, primarily white mould ripened cheese in conformity with the *General Standard for Cheese* (CXS 283-1978), which has a shape of a flat cylinder or sectors thereof. The body has a near white through to light yellow colour and a soft-textured (when thumbs-pressed), but not crumbly texture, ripened from the surface to the center of the cheese. Gas holes are generally absent, but few openings and splits are acceptable. A rind is to be developed that is soft and entirely covered with white mould but may have red, brownish or orange coloured spots. Whole cheese may be cut or formed into sectors prior to or after the mould development.

For Brie ready for consumption, the ripening procedure to develop flavour and body characteristics is normally from 10 days at 10–16°C depending on the extent of maturity required. Alternative ripening conditions (including the addition of ripening enhancing enzymes) may be used, provided the cheese exhibits similar physical, biochemical and sensory properties as those achieved by the previously stated ripening procedure. Brie intended for further processing need not exhibit the same extent of ripening when justified through technical and/or trade needs.

3. ESSENTIAL COMPOSITION AND QUALITY FACTORS

3.1 Raw materials

Cows' milk or buffaloes' milk, or their mixtures, and products obtained from these milks.

3.2 Permitted ingredients

- Starter cultures of harmless lactic acid and/ or flavour producing bacteria and cultures of other harmless micro-organisms, including *Geotrichum candidum*, *Brevibacterium linens*, and yeast;
- Rennet or other safe and suitable coagulating enzymes;
- Sodium chloride and potassium chloride as a salt substitute;
- Potable water;
- Safe and suitable enzymes to enhance the ripening process;
- Safe and suitable processing aids;
- Rice, corn and potato flours and starches: Notwithstanding the provisions in the *General Standard for Cheese* (CXS 283-1978), these substances can be used in the same function as anti-caking agents for treatment of the surface of cut, sliced, and shredded products only, provided they are added only in amounts functionally necessary as governed by Good Manufacturing Practice, taking into account any use of the anti-caking agents listed in Section 4.

3.3 Composition

Milk constituent:	Minimum content (m/m)	Maximum content (m/m)	Reference level (m/m)
Milkfat in dry matter:	40%	Not restricted	45% to 55%
Dry matter:	Depending on the fat in dry matter content, according to the table below.		
	Fat in dry matter content (m/m):		Corresponding minimum dry matter content (m/m):
	Equal to or above 40% but less than 45%:		42%
	Equal to or above 45% but less than 55%:		43%
	Equal to or above 55% but less than 60%:		48%
	Equal to or above 60%:		51%

Compositional modifications beyond the minima and maxima specified above for milkfat and dry matter are not considered to be in compliance with Section 4.3.3 of the *General Standard for the Use of Dairy Terms* (CXS 206-1999).

3.4 Essential sizes and shapes

Maximum height: Approx. 5 cm;

Weight: Whole cheese of flat cylinder: approx. 500 g to 3 500 g

3.5 Essential ripening procedure

Rind formation and maturation (proteolysis) from the surface to the centre is predominantly caused by *Penicillium candidum* and/or *Penicillium camembertii* and *Penicillium caseicolum*.

4. FOOD ADDITIVES

Only those additives classes indicated as justified in the table below may be used for the product categories specified. Colours used in accordance with Tables 1 and 2 of the *General Standard for Food Additives* (CXS 192-1995) in food category 01.6.2.1 (Ripened cheese, includes rind) and only certain acidity regulators in Table 3 are acceptable for use in foods conforming to this standard.

Additive functional class:	Justified use	
	Cheese mass	Surface/rind treatment
Colours:	X ^(a)	–
Bleaching agents:	–	–
Acids	–	–
Acidity regulators:	X	–
Stabilizers:	–	–
Thickeners:	–	–
Emulsifiers:	–	–
Antioxidants:	–	–
Preservatives:	–	–
Foaming agents:	–	–
Anti-caking agents:	–	–

(a) Only to obtain the colour characteristics, as described in Section 2.

X The use of additives belonging to the class is technologically justified.

– The use of additives belonging to the class is not technologically justified.

5. CONTAMINANTS

The products covered by this Standard shall comply with the maximum levels for contaminants that are specified for the product in the *General Standard for Contaminants and Toxins in Food and Feed* (CXS 193-1995).

The milk used in the manufacture of the products covered by this Standard shall comply with the maximum levels for contaminants and toxins specified for milk by the *General Standard for Contaminants and Toxins in Food and Feed* (CXS 193-1995) and with the maximum residue limits for veterinary drug residues and pesticides established for milk by the CAC.

6. HYGIENE

It is recommended that the product 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), the *Code of Hygienic Practice for Milk and Milk Products* (CXC 57-2004) and other relevant Codex texts such as Codes of Hygienic Practice and Codes of Practice. The products should comply with any microbiological criteria established in accordance with the *Principles for the Establishment and Application of Microbiological Criteria Related to Foods* (CXG 21-1997).

7. LABELLING

In addition to the provisions of the *General Standard for the Labelling of Prepackaged Foods* (CXS 1-1985) and the *General Standard for the Use of Dairy Terms* (CXS 206-1999), the following specific provisions apply:

7.1 Name of the food

The name Brie may be applied in accordance with Section 4.1 of the *General Standard for the Labelling of Prepackaged Foods* (CXS 1-1985), provided that the product is in conformity with this Standard. Where customary in the country of retail sale, alternative spelling may be used.

The use of the name is an option that may be chosen only if the cheese complies with this Standard. Where the name is not used for a cheese that complies with this Standard, the naming provisions of the *General Standard for Cheese* (CXS 283-1978) apply.

The designation of products in which the fat content is below or above the reference range but above the absolute minimum specified in Section 3.3 of this Standard shall be accompanied by an appropriate qualification describing the modification made or the fat content (expressed as fat in dry matter or as percentage by mass whichever is acceptable in the country of retail sale), either as part of the name or in a prominent position in the same field of vision. Suitable qualifiers are the appropriate characterizing terms specified in Section 7.3 of the *General Standard for Cheese* (CXS 283-1978) or a nutritional claim in accordance with the *Guidelines for Use of Nutrition and Health Claims* (CXG 23-1997)¹.

The designation may also be used for cut, sliced, shredded or grated products made from cheese which cheese is in conformity with this Standard.

7.2 Country of origin

The country of origin (which means the country of manufacture, not the country in which the name originated) shall be declared. When the product undergoes substantial transformation² in a second country, the country in which the transformation is performed shall be considered to be the country of origin for the purpose of labelling.

7.3 Declaration of milkfat content

The milk fat content shall be declared in a manner found acceptable in the country of retail sale, either (i) as a percentage by mass, (ii) as a percentage of fat in dry matter, or (iii) in grams per serving as quantified in the label, provided that the number of servings is stated.

7.4 Labelling of non-retail containers

Information specified in Section 7 of this Standard and Sections 4.1 to 4.8 of the *General Standard for the Labelling of Prepackaged Foods* (CXS 1-1985) and, if necessary, storage instructions, shall be given either on the container or in accompanying documents, except that the name of the product, lot identification, and the name of the manufacturer or packer shall appear on the container, and in the absence of such a container, on the product itself. However, lot identification and the name and address may be replaced by an identification mark, provided that such mark is clearly identifiable with the accompanying documents.

8. METHODS OF SAMPLING AND ANALYSIS

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) relevant to the provisions in this Standard, shall be used.

¹ For the purpose of comparative nutritional claims, the minimum fat content of 45% fat in dry matter constitutes the reference.

² For instance, repackaging, cutting, slicing, shredding and grating are not regarded as substantial transformation.

APPENDIX – ADDITIONAL INFORMATION

The additional information below does not affect the provisions in the preceding sections which are those that are essential to the product identity, the use of the name of the food and the safety of the food.

1. Method of manufacture

- 1.1** Fermentation procedure: Microbiologically derived acid development.
- 1.2** Type of coagulation: Coagulation of the milk protein is typically obtained through the combined action of microbial acidification and proteases (e.g. rennet) at an appropriate coagulation temperature.