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Rapeseed oil

菜籽油

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Rapeseed oil

1 Scope

This document specifies the terms and definitions, classification, quality requirements, inspection methods and rules, labeling, packaging, storage, transportation, and sales of rapeseed oil.

This document applies to finished rapeseed oil and crude rapeseed oil. The quality indicators for crude rapeseed oil are only applicable to the trade of crude rapeseed oil.

This document does not apply to high-oleic rapeseed oil.

2 Normative references

The contents of the following documents, through normative references in this text, constitute indispensable provisions of this document. Among them, for dated references, only the edition corresponding to that date applies to this document. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 Packaging - Pictorial marking for handling of goods

GB/T 5009.37 Method for analysis of hygienic standard of edible oils

GB 5009.168 National food safety standard - Determination of eicosapentaenoic acid and docosahexaenoic acid in foods

GB 5009.227 National Food Safety Standard - Determination of peroxide value in food

GB 5009.229 National Food Safety Standard - Determination of Acid Value in Foods

GB 5009.236 Animal and vegetable fats and oils - Determination of moisture and volatile matter content

GB 5009.262 National Food Safety Standard - Determination of solvent residues in food

GB/T 5490 Inspection of grain and oils - General rules

GB/T 5524 Animal and vegetable fats and oils - Sampling

GB/T 5525 Vegetable fats and oils - Method for identification of transparency, odor and flavor

GB/T 5526 Inspection of vegetable oils - Methods for determination of specific gravity

GB/T 5531 Inspection of grain and oils - Heating test of vegetable fats and oils

GB/T 5533 Inspection of vegetable oils - Methods for determination of saponified matter content

GB/T 15688 Animal and vegetable fats and oils - Determination of insoluble impurities content

GB/T 17374 Sales package of edible vegetable oil

GB/T 20795 Determination of smoking point for vegetable fats and oils

GB/T 30354 Criterion for bulk transportation of edible vegetable oils

GB/T 35877 Inspection of grain and oils - Cold test of animal and vegetable fats and oils

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Rapeseed oil

Oil made from rapeseed.

3.2

Low-crucic acid rapeseed oil

Rapeseed oil whose fatty acid composition contains not more than 3% erucic acid.

[Translator note: “Low-crucic acid” should be “Low-erucic acid”.]

3.3

Crude rapeseed oil

An oil product made from rapeseed that meets the crude oil quality indicators in this document and cannot be directly used for human consumption.

3.4

Finished rapeseed oil

An oil product that can be directly used for human consumption, which is obtained by refining crude rapeseed oil.

3.5

Pressing rapeseed oil

An oil product that is made by refining crude rapeseed oil obtained by squeezing rapeseed with mechanical pressure.

3.6

Solvent rapeseed oil

An oil product that is made from refining crude rapeseed oil obtained from rapeseed embryos or pre-pressed cakes, by using the characteristics of solvent dissolving oil.

4 Classification

According to the degree of processing, rapeseed oil is divided into two types: crude rapeseed oil and finished rapeseed oil. According to the erucic acid content of rapeseed oil, it is divided into common rapeseed oil and low-erucic acid rapeseed oil.

5 Quality requirements

5.1 Basic composition and main physical parameters

The basic composition and main physical parameters of rapeseed oil are shown in Table 1. These compositions and parameters represent the basic characteristics of rapeseed oil. When used for authenticity determination, they are for reference only.

Rapeseed oil must not be mixed with other edible oils and non-edible oils.

6 Inspection methods

- 6.1** Inspection of relative density: Carry out according to GB/T 5526.
- 6.2** Inspection of fatty acid composition: Carry out according to GB 5009.168.
- 6.3** Inspection of transparency, odor and flavor: Carry out according to GB/T 5525.
- 6.4** Color inspection: Carry out according to GB/T 5009.37.
- 6.5** Inspection of moisture and volatile matter: Carry out according to GB 5009.236.
- 6.6** Inspection of insoluble impurities content: Carry out according to GB/T 15688.
- 6.7** Inspection of acid value: Carry out according to GB 5009.229.
- 6.8** Inspection of peroxide value: Carry out according to GB 5009.227.
- 6.9** Inspection of solvent residues: Carry out according to GB 5009.262.
- 6.10** Heating test: Carry out according to GB/T 5531.
- 6.11** Inspection of saponified matter content: Carry out according to GB/T 5533.
- 6.12** Cold test: Carry out according to GB/T 35877.
- 6.13** Inspection of smoking point: Carry out according to GB/T 20795.

7 Inspection rules

7.1 General rules for inspection

Carry out according to GB/T 5490.

7.2 Sampling

Carry out according to the requirements of GB/T 5524.

7.3 Exit-factory inspection

7.3.1 It shall be inspected lot by lot. It shall issue an inspection report.

7.3.2 Inspect according to the items specified in Table 2, Table 3, and Table 4.

7.4 Type inspection

7.4.1 When there are major changes in raw materials, equipment, and processes, or when the supervision and management department makes a request, type inspection shall be carried out.

7.4.2 Inspect according to the provisions of Table 1, Table 2, Table 3, and Table 4. When the test results do not meet the requirements in Table 1, the rapeseed raw materials used to produce this lot of products can be used for inspection and supporting evidence.

7.5 Rules of determination

7.5.1 If the product is not marked with quality grade, it shall be determined as nonconformity.

7.5.2 After the product is inspected, if there is one item that does not meet the specified values in Table 2, Table 3, and Table 4, it is determined to be a product that does not meet the grade.

8 Labeling and identification

8.1 Product name: Mark the product name according to the terms and definitions.

8.2 The processing technology shall be marked on the packaging or accompanying documents.

9 Packaging, storage, transportation, and sales

9.1 Packaging

9.1.1 It shall comply with GB/T 17374 and relevant national regulations and requirements.

9.1.2 The pictorial marking for handling of goods for packaging shall comply with the provisions of GB/T 191.

9.2 Storage

It shall be stored in a hygienic, cool, dry, and light-proof place. It shall be avoided from being stored together with harmful and toxic items, especially items with abnormal odors.

If the product shelf life depends on some special conditions, it shall be stated on the label.

9.3 Transportation

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