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GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 67.200.10

X 14

GB 1536-2004

Replacing GB 1536-1986

Rapeseed oil

菜籽油

[Including Amendment No.1 2005XG1]

It is renamed as a recommended standard according to the Announcement No.7 of 2017 by Standardization Administration
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Issued on: August 13, 2004

Implemented on: February 01, 2005

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of PRC;**

Standardization Administration of PRC.

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3.2

Solvent extraction rapeseed oil

The oil obtained by the solvent extraction process of rapeseed.

3.3

Genetically modified organism rapeseed oil

Oil obtained from genetically modified rapeseed.

3.4

Rapeseed oil-low erucic acid

The rapeseed oil which has an erucic acid content of not more than 3%.

3.5

Crude rapeseed oil

Rapeseed oil that cannot be directly consumed by humans without any treatment.

3.6

Finished product of rapeseed oil

Rapeseed oil directly for human consumption after being processed to meet the quality index and hygiene requirements of this standard.

3.7

Refractive index

The ratio of the angle of incidence to the sine of the angle of refraction when light enters grease from the air.

3.8

Specific gravity

The ratio of the mass of the vegetable oil at 20 °C to the mass of distilled water of the same volume at 20 °C.

3.9

Iodine value

Acid value

The number of milligrams of potassium hydroxide required to neutralize the free fatty acids as contained in 1 g of fat.

3.18

Peroxide value

The number of millimoles of peroxide in 1 kg of fat.

3.19

Residual solvent amount in oil

The number of milligrams of solvent remaining in 1 kg of fat.

3.20

Heating test

When the oil sample is heated to 280 °C, observe the presence or absence of precipitation and oil color change.

3.21

Refrigeration test

The oil sample is kept at a constant temperature of 0 °C for a certain period of time, to observe its clarity.

3.22

Saponified matter content

The content of the saponified compound in the oil after alkali refining (calculated as sodium oleate).

3.23

Smoking point

The temperature of the oil sample when it is heated to a temperature at which blue smoke is continuously emitted.

4 Classification

Rapeseed oil is divided into crude rapeseed oil, pressing rapeseed oil, finished solvent extraction rapeseed oil.

amount in oil / (mg/kg)	Pressing rapeseed oil	ND	ND	ND	ND
Note 1: Those marked with “-” are not detected. When the Residual solvent amount in pressing rapeseed oil and grade 1 and grade solvent extraction rapeseed oil is less than 10 mg/kg, it is regarded as not detected.					
Note 2: Some indicators in bold are mandatory.					

5.3 Hygienic indicators

It is performed according to GB 2716, GB 2760 and relevant national standards and regulations.

5.4 Others

Rapeseed oil must not be mixed with other edible oils and non-edible oils. It shall not be added with fragrances or spices.

6 Test methods

6.1 Inspection of transparency, smell, taste: It is performed in accordance with Chapters 1 and 3 of GB/T 5525-1985.

6.2 Color inspection: It is performed in accordance with Chapter 2 of GB/T 5525-1985.

6.3 Inspection of specific gravity: It is performed in accordance with GB/T 5526.

6.4 Inspection of refractive index: It is performed in accordance with GB/T 5527.

6.5 Inspection of moisture and volatile matter: It is performed in accordance with GB/T 5528.

6.6 Inspection of insoluble impurities: It is performed in accordance with GB/T 5529.

6.7 Inspection of acid value: It is performed in accordance with GB/T 5530.

6.8 Heating test: It is performed in accordance with GB/T 5531.

6.9 Inspection of iodine value: It is performed in accordance with GB/T 5532.

6.10 Inspection of saponification value: It is performed in accordance with GB/T 5533.

6.11 Inspection of saponification value: It is performed in accordance with GB/T 5534.

6.12 Inspection of unsaponifiable matter: It is performed in accordance with GB/T 5535.

conforming product.

8 Labels

In addition to complying with the provisions and requirements of GB 7718, there are the following special terms:

8.1 Product name

8.1.1 All products labeled “Rapeseed Oil” shall comply with this standard.

8.1.2 Genetically modified rapeseed oil shall be identified according to relevant national regulations.

8.1.3 For the pressing rapeseed oil and solvent extraction rapeseed oil, it shall be identified with “pressing”, “extraction” respectively in the product label.

8.2 Country of origin

It shall be indicated of the country of origin of the raw materials of product.

9 Packaging, storage and transportation

9.1 Packaging

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

9.2 Storage

It shall be stored in a cool, dry and dark place. Do not store it together with harmful or toxic substances.

9.3 Transportation

It shall pay attention to safety during transportation, to prevent sun, rain, leakage, pollution and label detachment. There must be a special vehicle in bulk transportation. It shall keep the vehicle clean and hygienic.

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