

Translated English of Chinese Standard: GB/T11761-2006

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**National Standard
of the People's Republic of China**

GB/T 11761-2006
Replacing GB/T 11761-1989

Sesame seed

芝麻

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Foreword

This Standard is the revision of GB/T 11761-1989 "Sesame". Compared with GB/T 11761 and 1989, this Standard adds mass of 1000 grains, protein content, inspection rules, and marking. It also revises the requirements for storage and transportation.

From the date of implementation, this Standard shall replace GB/T 11761-1989.

Appendix A of this Standard is normative.

This Standard was proposed and shall be administered by the China Federation of Supply and Marketing Cooperation.

This Standard was drafted by: China Federation of Supply and Marketing Cooperation, and Nanjing Institute of Wild Plant Utilization.

Drafters of this Standard: Chen Shirong, and Zhang Weiming.

The previous standard replaced by this Standard is:
GB/T 11761-1989.

Sesame seed

1 Scope

This Standard specifies sesame's terms and definitions, technical requirements, test methods, inspection rules, packaging, marking, storage and transportation.

This Standard applies to sesame's quality assessment and trading.

2 Normative references

The following documents contain provisions which, through reference in this Standard, become provisions of this Standard. For dated references, their subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB 2762 Maximum levels of contaminants in foods

GB 2763 Maximum residue limits for pesticides in food

GB 5491 Inspection of grain and oilseeds - Methods for sampling and sample reduction

GB/T 5492 Inspection of grain and oils. Identification of color, odor and taste of grain and oilseeds

GB/T 5493 Inspection of grain and oils. Determination of type purity and their mixture

GB/T 5494 Inspection of grain and oils. Determination of foreign matter and unsound kernels of grain and oilseeds

GB/T 5497 Inspection of grain and oilseeds - Methods for determination of moisture content

GB/T 5512 Inspect of grain and oilseeds. Determination of crude fat content in grain

GB/T 5519 Cereals and pulses. Determination of the mass of 1000 grains

GB/T 14489.2 Inspection of grain and oils. Determination of crude protein in oilseeds

GB 15199 Tolerance limit of copper in foods

GB 15569 Quarantine protocol for the movement of agricultural plants and plant products

3 Terms and definitions

The following terms and definitions apply to this Standard.

3.1 Mass of 1000 grains

The mass of finished product of one thousand sesame, in grams (g).

3.2 Ratio of pure quality

The percentage - mass of net sample minus half imperfect grains TO sample quality.

3.3 Imperfect grain

The grains which are imperfect but still have usage value, including immature grains, worm-eaten grains, damaged grains and moldy grains.

3.3.1 Unripe gain

The grains which are immature or deflated. It is significantly different from the normal grains.

3.3.2 Worm-eaten grain

The grains which are moth-eaten or of which the cotyledons are damaged.

3.3.3 Damaged grain

The grains which are rushed or cracked.

3.3.4 Mildewly grain

The grains of which the surface is mildewed or the cotyledons are discolored.

3.4 Impurity

The matter which passes through sieve layer and has no food value, including matter-under-sieve and inorganic impurities.

3.4.1 Matter under sieve

The matter which passes through a sieve with 1.0 mm diameter hole.

3.4.2 Inorganic impurity

Gravel, mud, brick blocks and other inorganic substances.

3.5 Organic impurity

Sesame grains without food value, dissimilar grains and oil grains, and other organic impurities.

3.6 Oil content

The mass fraction of crude fat in sesame.

3.7 Protein content

The mass fraction of crude protein in sesame.

Appendix A

(Normative)

Quality indicators of oil-making sesame

A.1 The grade of oil-making sesame shall be determined by oil content with standard water and impurity. Quality indicators of each grade refer to Table A.1.

Table A.1 Quality indicators of oil-making sesame

Grade	Oil content (with standard water, impurity) / (%)	Mass of 1000 grains / g	Moisture (%)	Protein (%)	Impurity (%)	Color & odor
1	≥ 51.0	≥ 2.2	≤ 8.0	≥ 19.0	≤ 2.0	Normal
2	≥ 50.0					
3	≥ 49.0					
4	≥ 48.0					
5	≥ 47.0					

A.2 Pricing basis of oil-making sesame shall be based on grade 3. When the oil content is above 52.0% or below 47.0%, price shall be adjusted according to the actual oil content.

A.3 Health indicators: Health indicators shall be performed according to the standards: GB 2762, GB 2763, and GB 15199.

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