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**PROFESSIONAL STANDARD OF THE PEOPLE'S
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中华人民共和国轻工行业标准

QB/T 4087-2010

Edible Gelatin

食用明胶

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Contents

Foreword	1
1. Scope	1
2. Normative References	1
3. Classification	1
4. Requirements	2
5. Testing Methods	3
6. Inspection Rules	15
6.1. Ex-factory Inspection	15
6.2. Type Inspection	16
6.3. Sampling Program	16
6.4. Decision Rule	16
6.5. Net Content	17
7. Sign, Package, Transportation, Storage and Warranty Period	18
7.1. Signs	18
7.2. Package	18
7.3. Transportation	18
7.4. Storage	18
7.5. Warranty Period	18
Annex A (Normative) Measurement Method for Molecular Weight of Gelatin	20
Annex B (Informative) Labeling Method for Product Model of Edible Gelatin	221

Foreword

This standard is proposed by China National Light Industry Council.

This standard is under the jurisdiction of Gelatin Branch of China Chemistry Industrial Association.

Main drafting entity of the standard: China Quality Supervision & Inspection Center for Gelatin & Gelatin Used Products (Beijing).

Entities participating in the drafting: Rousselot (Guangdong) Gelatin Co., Ltd., Qinghai Gelatin Co., Ltd., Gansu Gelatin Co., Ltd., Haining County Shenyu Gelatin Co., Ltd. and Nehe Hongli Gelatin Factory.

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The standard is issued for the first time.

Edible Gelatin

1. Scope

The standard specifies the classification, requirements, test methods, inspection rules and signs, package, transportation, storage and warranty period of the edible gelatin.

The standard is applicable to the edible gelatin manufactured with animals' skin and bones etc.

2. Normative References

The following provisions contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to, or revisions of (including corrigendum contents), or Revised Edition do not apply. For undated references, the latest edition of the normative document referred to applies.

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

GB 4789.2 Food Microbiological Examination: Aerobic Plate Count

GB 4789.3 Food Microbiological Examination: Enumeration of Coliforms

GB 4789.4 Food Microbiological Examination: Salmonella

GB/T 5009.11-2003 Determination of total arsenic and abio-arsenic in food

GB/T 5009.74-2003 Method for limit test of heavy metals in food additives

GB/T 5009.123-2003 Determination of chromium in foods

GB 7718 General standard for the labeling of prepackaged foods

Order No. 75 of State Quality Inspection Administration *Measures for the Metrological Supervision and Administration of Quantitatively Packed Commodities*

3. Classification

- It can be divided into Type A (acid process, pH of isoelectric point is 7.0-9.0), Type B (alkaline process, pH of isoelectric point is 4.7-5.2) and Type AB (acid-base process, the isoelectric point may not be within the scope of the above Type A and Type B) according to the production processes;
- It can be divided into bone type and skin type based on the adopted materials etc.

4. Requirements

4.1. Materials

It must be made of animals' skin and bone. It is strictly forbidden to use any scrap materials tanned by the tannery.

4.2. Senses

4.2.1. The product shall be the light yellow or yellow solid substances (such as particles, pieces and powder etc) and shall be kept clean.

4.2.2. The gelatin solution (2.5%) shall have no uncomfortable odor.

4.3. Physical and Chemical Indicators

It must conform to the regulations in Table 1.

4.4. Micrograms Indicators

It must confirm to the regulations in Table 2.

Table 1

Items		Indicators
Water content/%	≤	14.0
Freezing strength (solution of 6.67%)/Bloom g	≥	50
Brookfield viscosity(solution of 6.67%)/mPa·s	≥	1.5
Transmittance/%	450nm	≥ 5
	620nm	≥ 20
Ash content/% (mass fraction)	≤	2.0
Sulfur dioxide/ (mg/kg)	≤	50
Superoxide/ (mg/kg)	≤	10
pH (solution of 1%)		3.6~7.6
Arsenic (As)/ (mg/kg)	≤	1.0
Chromium/ (mg/kg)	≤	2.0
Heavy metal (calculated by Pb) / (mg/kg)	≤	50

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