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GB/T 20884-2007

Maltodextrin
(English Translation)

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Table of Contents

Foreword...	3
1 Scope...	4
2 Normative references...	4
3 Terms and definitions...	4
4 Product classification...	5
5 Requirements...	5
6 Test method...	5
7 Inspection rules...	9
8 Marking, packaging, transportation and storage...	11

Foreword

The standard was first formulated on the basis of QB/T 2320-1997

"Maltodextrin".

From the date of implementation of this standard, QB/T 2320-1997 shall be abolished.

This standard was proposed by and shall be under the jurisdiction of the Industrial Fermentation Sub-Technical Committee of the National Food Industry Standardization Technical Committee.

Drafting organizations of this standard. China Food Fermentation Industry Research Institute, Luzhou Biotechnology (Shandong) Co., Ltd., Shandong Xiwang Group Co., Ltd., China Resources Celesta Corn Industry Co., Ltd., Guangzhou Shuangqiao Co., Ltd., Heilongjiang Huaguan Technology Co., Ltd.

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Maltodextrin

1 Scope

This standard specifies the terms and definitions, product classification, requirements, test methods, inspection rules, marking, packaging, transportation, storage of maltodextrin.

This standard applies to maltodextrin.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 191 Packaging - Pictorial marking for handling of goods (GB/T 191-2000, eqv ISO 780.1997)

GB/T 601 Chemical reagent - Preparations of standard volumetric solutions

GB/T 6682-1992 Water for laboratory use - Specifications (neq ISO 3696.1987)

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1

Maltodextrin (MD)

A starch derivative free of free starch made from starch or starchiness as a raw material, through enzymatical hydrolysis, refining, spray drying.

4 Product classification

According to the DE value, it is divided into three categories. MD10; MD15; MD20

5.1 Sensory requirements

It shall meet the requirements of Table 1.

5.3 Hygienic requirements

It shall comply with the provisions of GB 15203.

6 Test method

The water used in this method, unless otherwise specified, shall comply with the specifications of grade-3 or higher (including grade-3) water in GB/T 6682-

6.1.1 Appearance and color

Take an appropriate amount of dextrin sample. Observe the color and form of the sample with naked eyes under natural light for impurities.

6.2 DE value

Determine it according to 6.3 in GB/T 20885-2007.

6.3.2 Analytical procedures

Weigh 2 g of the sample (accurate to 0.0001 g) in a weighing dish that has been baked to constant weight. Put it in a $105\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ constant temperature drying oven to dry it for 2 h. Move it into a desiccator to cool.

6.3.3 Calculation of results

The moisture of the sample is calculated according to formula (1). The value is expressed in %.

6.4.2 Analytical procedures

Weigh 5 g of the sample (accurate to 0.0001 g) in a 50 mL beaker. Add an appropriate amount of $35\text{ }^{\circ}\text{C} \sim 40\text{ }^{\circ}\text{C}$ water to dissolve it. Use quantitative filter paper (put the quantitative filter paper in a weighing dish in advance;

6.4.3 Calculation of results

The solubility of the sample is calculated according to formula (2). The value is expressed in %.

6.5 pH

6.5.1 Instruments

Acidity meter. Accuracy ± 0.01 pH, equipped with glass electrode and calomel electrode (or composite electrode).

6.6 Sulfated ash

Determine it according to 6.7 in GB/T 20885-2007.

6.7.1.1 Iodine standard solution []. Prepared and calibrated

according to GB/T 601.

7.1 Group-batch

The products with the same quality certificate produced in the same shift and packaged for exit-factory form a batch. Before exit-factory, the products shall be inspected batch by batch, by the inspection department of the manufacturer according to the provisions of this standard. After being qualified, a product certificate shall be issued before exit-factory.

7.2 Sampling

When taking samples from the whole batch of products, it shall first take several packaging units from the whole batch; then take uniform samples from the taken packaging units.

7.4 Type inspection

Type inspection items are all items as specified in this standard. Under normal circumstances, type inspections are conducted every six months. In one of the following situations, type inspection shall also be carried out.