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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 16715.1-2010

Seed of gourd and vegetable crops Part 1: Gourd

瓜菜作物种子 第1部分：瓜类

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Quality requirements
- 4.2 Quality Standards
- 6 Inspection rules
- 7.0 The field with the parent species 99.0 99.0 7.0

Foreword

All technical content in this Part of GB 16715 is mandatory. GB 16715 "melon seeds" into the following sections.

- Part 1. melons;
- Part 2. cabbage;
- Part 3. Eggplant;
- Part 4. cabbage;
- Part 5. green leafy vegetables; This section GB 16715 Part 1. This Part replaces GB 4862-1984 "Chinese melon seed" and GB/T 16715.1-1996 "melon seeds melons." This section compared with GB 4862-1984 and GB/T 16715.1-1996, the main changes are as follows:
 - Clear scope;
 - Revised definitions and terminology;
 - Canceled watermelon hybrid seed quality rating;
 - Modify the quality requirements of diploid watermelon hybrid seeds;
 - Increasing the quality indicators triploid watermelon hybrid seeds;
 - Increasing the quality indicators melon seeds;
 - Increasing the quality index of cucumber seeds;
 - Cancel the packaging, transportation, storage of reference provisions;

1 Scope

Part 1 of China's mandatory national standard for vegetable seed, covering gourds. Seed is the one agricultural input whose quality cannot be judged by looking at it, and whose failure is discovered only weeks after sowing, when the season is lost and the field has to be replanted or written off. That is why seed standards are mandatory and why they are written as guaranteed minima on four properties: varietal purity, which decides whether the crop is the variety that was bought; germination percentage, which decides how much of what was sown will emerge; cleanliness, the freedom from other seed and inert matter; and moisture, which governs how long the lot stays viable in store. This part covers the gourd family - cucumber, melon, watermelon, pumpkin and gourds - and sets the grades, the requirements, the sampling and the test methods for their seed.

GB 16715 of the provisions of this part of the watermelon [*Citrullus lanatus* (Thunb.) Matsum. et Nakai], melon [*Cucumis melo* L.], melon [*Benincasa hispida* (Thunb.) Cogn.], cucumbers [*Cucumis sativus* L.] seed quality requirements, inspection Test methods and inspection rules. This Part applies to the production of People's Republic of China, said sales of melon seeds including capsuled seeds and non-coated seeds.

2 Normative references

The following documents contain provisions which, through reference in this Part of

GB 16715, constitute provisions of this part. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section. Inspection of

GB/T 3543 (all parts) crop seeds

GB 20464 General labeling of agricultural seeds

3 Terms and Definitions

The following terms and definitions apply to this part of GB 16715.

3.1 Stock basicseed Breeder seed multiplication with the first generation to the third generation, seeds and confirmed to meet the specified quality requirements.

3.2 Field with the kind qualifiedseed With the original breeder of the first generation to the third generation or hybrid seeds, seeds and confirmed to meet the specified quality requirements.

3.3 Triploid species triploidseed Tetraploid and diploid as male as female hybridization produced seeds.

4 Quality requirements

4.1 General Seed quality requirements by the quality indicators and quality stated values. The quality indexes include purity, clarity, germination rate and moisture; quality standards NOTE value should be true, and in accordance with the provisions of 4.2.

4.2 Quality Standards

4.2.1 watermelon Watermelon seeds shall meet the minimum requirements in Table 1. Table 1 % Crop variety Seed classification Varietal purity not lower than Clarity (pure seeds) not lower than Germination rate not lower than Water not higher than watermelon Parents Stock

99.7 With the kind of field 99.0 99.0 90

6 Inspection rules

6.1 for sampling OK for sampling methods and seed lot shall implement the provisions of GB/T 3543's.

6.2 Quality judgment rules Quality judgment rules shall implement the provisions of GB 20464.

7.0 The field with the parent species 99.0 99.0 7.0

90 Hybrid seed field with 90 95.0 99.0

7.0 NOTE. The cantaloupe is a melon. This table referring produced in northwest China, the type of crop seed labeled cantaloupe.

4.2.3 melon Melon seeds shall meet the minimum requirements in Table 4. Table 4% Crop variety Seed classification Varietal purity not lower than Clarity (pure seeds) not lower than Germination rate not lower than Water not higher than Melon Stock

98.0 With the kind of field 96.0 99.0 9.0

4.2.4 cucumber Cucumber seeds shall meet the minimum requirements of Table 5. table 5 % Crop variety Seed classification Varietal purity not lower than Clarity (pure seeds) not lower than Germination rate not lower than Water not higher than cucumber General species Stock

98.0 With the kind of field 95.0 99.0 90

8.0

Note 1. The triploid hybrid watermelon seed germination tests usually require pre-treatment.

Note 2. The sales of diploid watermelon hybrids may not be specifically labeled diploid, triploid watermelon hybrid sales need specific labeling.

4.2.2 melon Melon seeds shall meet the minimum requirements of Table 2, where the melon seeds shall meet the minimum requirements in Table 3. Table 2 % Crop variety Seed classification Varietal purity not lower than Clarity (pure seeds) not lower than Germination rate not lower than Water not higher than melon General species Stock

98.0 With the kind of field 95.0 99.0