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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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GB/T 5494-2008

Replacing GB/T 5494-1985

Inspection of Grain and Oils – Determination of Foreign Matter and Unsound Kernels of Grain and Oilseeds

粮油检验 粮食、油料的杂质、不完善粒检验

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Foreword

This Standard replaced GB/T 5494-1985 *Inspection of Grain and Oilseeds – Methods for Determination of Foreign Matter and Unsound Kernels*.

Compared with GB/T 5494-1985, this Standard has the major changes as follows:

- Added the contents of Normative References;
- Added the illumination requirements during the inspection operational process;
- Added the inspection method for the unsound kernels of rice;
- Partially Modified the operation method and results calculation;
- Deleted the calculation of pure kernel yield.

This Standard was proposed by State Administration of Grain.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Grain and Oil.

Drafting organization of this Standard: Henan provincial Foodgrain & Cooking Oil Stall Food Product Quality Supervision and Inspection Station.

Participating drafting organization of this Standard: Grain & Oil Institute for Inspection and Supervision of Liaoning Province.

Chief drafting staffs of this Standard: Yin Chenghua, Cui Guohua, and Hu Jipeng.

The historical edition replaced by this Standard is as follows:

- GB/T 5494-1985.

Inspection of Grain and Oils

– Determination of Foreign Matter

and Unsound Kernels of Grain and Oilseeds

1 Scope

This Standard specifies the apparatus, illumination requirements, sample preparation, operation methods and results calculation for inspection of foreign matter and unsound kernels of grain and oilseeds.

This Standard is applicable to the determination of foreign matter and unsound kernels of grain and oilseeds.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) 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 5491 Inspection of Grain and Oilseeds – Methods for Sampling and Sample Reduction

GB/T 22505 Inspection of Grain and Oils – Sensory Analysis Environment – Lighting

3 Apparatus

3.1 Balance with sensibility of 0.01g, 0.1g, 1g.

3.2 Grain sieve.

3.3 Electric selector.

3.4 Sample splitter and sample splitting plate.

cover the sieve cap; put it onto the electric selector; turn on the power, turn on the switch; the sieve automatically turn to left and right for 1min, respectively (110r/min~120r/min); stand for a moment after screening; separately pour the screen overflow and screen underflow onto the analysis disk. The grains stuck in the middle of the sieve belong to screen overflow.

6.1.1.2 Hand sieving method: cover the sieve layer as per the method stipulated in 6.1.1.1; pour into the specimen, and cover the sieve cap. Then put the selector onto the glass plate or smooth desktop; use both hands to screen in the clockwise and counterclockwise directions at the speed of 110 times/min ~ 120times/min for 1 min, respectively. The screening range shall be controlled with sieve diameter expanding 8cm~10cm. The operation after screening is the same as 6.1.1.1.

6.1.2 Large-specimen foreign matter inspection

From the average sample, separately take specimen according to the provision of Clause 5 to the large specimen amount (m) specified in Table 1, accurate to 1g; screening for twice according to the screening method specified in 6.1.1 (super-large kernel of grain and oilseeds shall be screened for 4 times); then select the screen overflow large foreign matter and screen underflow, and weigh them together (m_1), accurate to 0.01g (large foreign matter of wheat shall be selected from the 4.5mm sieve).

6.1.3 Small-specimen foreign matter inspection

From the specimen inspecting the large-specimen foreign matter, separately take the specimen according to the provisions of Clause 5 to the small- specimen amount (m_2) specified in Table 1; when the small-specimen amount is no greater than 100g, accurate to 0.01g; when small-specimen amount is greater than 100g, accurate to 0.1g; pour into the analysis disk; select the foreign matter according to the provisions of quality standard; weigh (m_3), accurate to 0.01g.

6.1.4 Minerals inspection

If there is minerals indicator (excluding the rice) specified in the quality standard, select the minerals from the separated small-specimen foreign matter; weigh (m_4), accurate to 0.01g.

6.1.5 Unsound kernel inspection

When inspecting the small-specimen foreign matter, select the unsound kernel according to the provision of quality standard; weigh (m_5), accurate to 0.01g.

6.2 Inspection of foreign matter and unsound kernel in the rice

6.2.1 Total mass inspection of bran powder, minerals and foreign matters

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