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

GB/T 24534.3-2009

**Cereals and pulses -- Determination of hidden insect infestation
-- Part 3: Reference method**

谷物与豆类隐蔽性昆虫感染的测定 第3部分：基准方法

(English Translation)

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Foreword

GB/T 24534 "cereals and pulses - Determination of hidden insect infestation" includes the following four parts.

- Part 1. General;
- Part 2. Sampling;
- Part 3. Reference method;
- Part 4. Rapid methods.

This section GB/T 24534 Part 3.

This section identical with ISO 6639-3. 1986 "Determination of cereals and pulses hidden insect infestation - Part 3. Reference method." for ease of use, this section made the following editorial changes.

- a) with GB/T 21305 instead of ISO 712;
- b) with GB/T 22183 instead of ISO 5223;
- c) In Table 1 insect species added to the Chinese name;
- d) Remove the ISO 6639-3. 1986 Foreword;
- e) Remove the ISO 6639-3. "Introduction" section 1986;
- f) Add the GB/T 24534.1 and GB/T 24534.2 to "normative references" on.

Appendix A of this part is a normative appendix.

This part is proposed by the National Food Authority.

This part of the National Grain and Oil Standardization Technical Committee centralized.

This section drafted by. National Food Reserve Chengdu Grain Storage Research Institute.

1 Scope

This section GB/T 24534 specifies the determination of cereals and legumes property and amount of hidden insect baseline methodology. Its purpose is Calculate the normal feeding within grains and legumes, and development of each insect, each of the number of individuals of all instars.

Since this method is to wait until all the insects complete their reproductive cycle and emergence as adults before they can be detected, so slow. This approach Reliably used is usually in the food grain feeding species, but not for those occasional cracks in food grain hole feeding species. Any of insects feed when line processing, these insects are likely to make it crashing or leave food grains and even death from food grains, resulting in underestimation of the number of these species.

2 Normative references

The following documents contain provisions which, through GB/T 24534 in this part of the reference in terms of this section. 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.

GB/T 21305 Cereals and cereal products - Determination of moisture conventional method (GB/T 21305-2007, ISO 712:1998, IDT) GB/T 22183 Grain Inspection sieve (GB/T 22183-2008, ISO 5223:1995, IDT) 24534.1 cereals and pulses - Determination of hidden insect infestation GB/T Part 1. General (GB/T 24534.1-2009, ISO 6639-1. 1986, IDT) 24534.2 cereals and pulses - Determination of hidden insect infestation GB/T Part 2. Sampling (GB/T 24534.2-2009, ISO 6639-2. 1986, MOD)

3 Terms and Definitions

Terms and definitions GB/T 24534.1 apply to this section as defined in GB/T 24534 of.

Principle 4

The sample was placed in a controlled temperature, relative humidity, the sample insects most likely to develop to the adult stage. In short Gap period, the adult food grains appear in the detection, classification, counting the number to get the original test sample insects.

5 Device

Commonly used laboratory equipment, especially the following.

5.1

sealed container. for the determination of moisture before storing samples.

5.2

Balance. a sense of the amount of 1g, minimum weight of 300g.

5.3

transparent container. glass or plastic container is preferably, 300g to accommodate the sample, and the sample thickness not exceeding 50mm.

5.4

closure. Allows gas exchange, but it can prevent insects and mites out of the container (5.3).

NOTE: The filter can be equipped with paraffin edge.

5.5

sieve. shall comply with GB/T 22183, to be able to retain the aperture and let the food grain by insects.

Note: For cereals, should adopt 2mm ~ 2.5mm aperture sieve; for beans, you need to use a larger aperture sieve to remove Bruchidae (Bruchidae) insect. Sieve preferably with deep chassis for insects collected under the sieve.

GB/T 24534.3-2009/ISO 6639-3. 1986