

SN

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

SN/T 0800.18-1999

**Cereals and feedstuffs for import and export. Method for the
inspection of admixture
(English Translation)**

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1 Scope

This Standard specifies the inspection methods for admixture in cereals and feedstuffs for import and export.

This Standard applies to the inspection of admixture in cereals and feedstuffs for import and export.

2 Normative references

The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. At the time of publication, the editions indicated are valid. All standards are subject to revision. The parties who are using this Standard shall explore the possibility of using the latest version of the following standards.

SN/T 0798-1999, Inspection of cereals, oils and feedstuffs for import and export.

Terminology for inspection

SN/T 0800.1-1999, Inspection of cereals, oils and feedstuffs for import and export.

Methods of sampling and preparation of samples

3 Definitions

This Standard adopts the definitions in SN/T 0798.

4 Sampling and sample preparation

This Standard adopts the methods in SN/T 0800.1.

5.1 Instruments and utensils

5.1.1

Balance

Sensitivity is 0.1g or 0.01g.

5.1.2

Electric screening machine.

5.1.3

Round hole screening sieves

Sieve hole diameters are 1.0, 1.2, 1.5, 2.0, 3.0,

4.0mm, with sieve bottom and sieve cover.

5.1.4

Bran flour sieves

Circular sieve diameter is 22.5cm; sieve hole diameter is 1.0mm;

total number of sieve holes is 3596 holes; with sieve bottom and sieve cover.

5.1.5

Tweezers, sample trays, small dishes, brushes, magnifying glasses, and so on.

5.2 Sieving

Put the required sieves on the sieve bottom plate in order of aperture from small to large.

Gently pour an appropriate amount of specimen into the center of the top sieve. Cover with a sieve lid.

5.2.1 Manual sieving

Place the round hole sieve on a glass plate or a smooth tabletop. Use both hands at a speed of (110~120) times per minute to sieve in clockwise and counterclockwise directions for 1min each. The sieving amplitude is (8~10) cm larger than the sieve diameter.

5.2.2 Machine sieving

Use an electric sieving machine with a rotating speed of (110~120) r/min; sieving amplitude is 1/2 radius of the selected sieve; sieve for 2min.

After sieving, gently remove the sieve. Pour the sieve into the sample plate. The material plugged in the sieve holes is combined into the over-sieve sample. Then, pour out the under-sieve in the sieve bottom plate. Use a brush to clean the dust adhering to the bottom plate. Merge into the under-sieve.

5.3.1 Operation method

Take the average sample according to Chapter 4. The average sample size shall be determined according to SN/T 0800.1. After inspecting the appearance and taking the water, weigh it on the balance with resolution of 0.1g. Then place it on the sample plate.

According to the explanation in SN/T 0798, sort out harmful admixtures and large admixtures. Respectively weigh on the balance with resolution of 0.01g.

5.3.2 Result calculation

The percentages of large admixture content and harmful admixture content are calculated according to formula (1) and formula (2):

5.6.2 Inspection of grains of rice, unhulled tares, minerals, and grains of different species

Prepare test specimens according to Chapter 4. The specimen size is determined according to Annex A. Weigh on the balance with resolution of 0.1g. Place it on a flat plate or sample tray. Use tweezers to sort out grains of rice, unhulled tares, minerals, and grains of different species separately. Weigh on the balance with resolution of 0.01g.

Calculate the percentages separately. Simultaneously count grains of rice, unhulled tares, minerals, and grains of different species.

5.6.3 Inspection of other admixtures

Prepare test specimens according to Chapter 4. The specimen size is determined according to Annex A. Weigh on the balance with resolution of 0.1g. Place it on a flat plate or sample tray. Pick out other admixtures. Weigh on the balance with resolution of 0.01g. Calculate the percentages.

5.6.4 Calculation of total admixtures

Calculate the percentage according to formula (6):

The total amount of admixtures (%) = bran flour (%) + minerals (%) + grains of rice, unhulled tares (%) + grains of different species (%) + other admixtures (%) (6)

The inspection result of the total amount of admixtures is rounded to one decimal place.

The results of the admixture sub-item shall be rounded to two decimal places.

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