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CCS X 04

SN

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

SN/T 1738-2014

Replacing SN/T 1770-2006; SN/T 1738-2006

Determination of tebufenozide residues in foodstuffs for export

出口食品中虫酰肼残留量的测定

(English Translation)

Issued on: January 1, 1970

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

Instead of the standard SN/T 1738-2006 "Importers in cereals and oilseeds tebufenozide residues test methods Gas chromatography-tandem mass Spectroscopy "and SN/T 1770-2006" Importers Cereals by inhibiting insect hydrazine residues in liquid chromatography method for the determination. " this standard compared with SN/T 1738-2006 and SN/T 1770-2006, the main changes are as follows.

- Standard name was changed to "Determination of food for export tebufenozide residues";
- Original SN/T 1738-2006 standard method used in the present second method;
- Original SN/T 1770-2006 standard third method of the present law;
- Increased liquid chromatography - mass spectrometry/mass spectrometry (LC-MS/MS) method was confirmed as positive samples (first law), and the scope of application an increase of pork, chicken, milk, blueberries, oranges, spinach, onions, chestnuts Ren tea;
- Delete the original standard sample parts.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

The standard liquid chromatography - mass spectrometry/mass spectrometry by the Heilongjiang People's Republic of China Exit Inspection and Quarantine is responsible for drafting.

The standard gas chromatography - mass spectrometry by the People's Republic of China Jilin Exit Inspection and Quarantine is responsible for drafting.

This standard liquid chromatography by the People's Republic of China Heilongjiang Exit Inspection and Quarantine is responsible for drafting.

This standard is the first major law drafter. Yang Chang-chih, Han Guang Yuan, Wang Zhuansong, Wang Wei, Ma Wei, Weidong Xu, Wu Yan, Cheng Yang.

1 Scope

This standard is the first law in food tebufenozide residues by liquid chromatography - mass spectrometry/mass spectrometry.

This standard provides a second method in food tebufenozide residues by gas chromatography - mass spectrometry.

This standard specifies the method of the third liquid chromatography in food tebufenozide residues.

This standard is the first law applies to rice, corn, soybeans, pork, chicken, milk, blueberries, oranges, spinach, onion, chestnut and Teas insects Hydrazide residues in the detection and confirmation.

The second method is suitable for standard brown rice, corn, soybean, peanut worms in the determination of hydrazine acid residues.

This standard third law applies to the determination of hydrazine rice insect acid residues.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis the first method by liquid chromatography - mass spectrometry/mass spectrometry

3 Method summary

Sample residues of tebufenozide with acetonitrile or acetonitrile acidic extraction, the extract was N- secondary amine (PSA), octadecylsilane (ODS) of carbon black and graphite purification by liquid chromatography - mass spectrometry/mass spectrometry detection and confirmation, external standard.

4 Reagents and materials

Unless otherwise specified, all reagents were of analytical grade water as a water GB/T 6682 regulations.

4.1

acetonitrile. chromatography.

4.2

acetic acid (99.5%).

4.3

sodium acetate.

4.4

sodium chloride.

4.5

anhydrous magnesium. by burning 650 °C 4h, placed in the dryer set aside.

4.6

acetate - acetonitrile (199, volume ratio). Take 10mL acetic acid (4.2), was added 990mL of acetonitrile (4.1) and mix.

4.7

acetic acid - water (1999, volume ratio). Take 1mL acetic acid, was added 999mL of water, and mix.

4.8

acetate - acetonitrile (3565, volume ratio). Take 35mL acetic acid solution (4.7), was added 65mL acetonitrile and mix.

Tebufenozide 4.9 Standard. tebufenozide (tebufenozide), CAS. 112410-23-8, purity of greater than or equal to 99%.

4.10

standard stock solution. accurately weighed amount of tebufenozide standards, dissolved in acetonitrile and dilute to 100mL brown volumetric flask, points Do not have a concentration of 100µg/mL standard stock solution, and this solution was transferred to reservoir bottle dark storage for six months at -18 °C.

4.11

intermediate standard solution. Imbibe tebufenozide standard stock solution 10mL to 50mL brown volumetric flask, diluted with acetonitrile into a thick Degree of 20µg/mL of the intermediate standard solution, this solution was transferred to reservoir bottle dark storage for six months at -18 °C.