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SN

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

SN/T 1017.7-2014

Replacing SN/T 1017.7-2002

**Determination of aldicarb, carbaryl, oxamyl, bendiocarb and
pirimicarb residues in cereals for export**

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(English Translation)

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Foreword

SN/T 1017 is divided into nine sections.

- SN/T 1017.1 cereals for export cycloheptyl residues in grass ether;
- SN/T 1017.2 cereals for export butylamine phosphorus residues in;
- SN/T 1017.3 cereals for export and vegetables pencycuron residues in;
- SN/T 1017.4 cereals for export and rapeseeds Da Qing residues in bacteria;
- SN/T 1017.5 export Cereals and oilseeds in the fast kill barnyard residues in;
- SN/T 1017.6 mid dry cereals for export phthalate residues in;
- SN/T 1017.7 cereals for export aldicarb, carbaryl, oxamyl, bendiocarb, anti-Determination pirimicarb residues;
- SN/T 1017.8 Importers in Grains beep insects morpholine residues in liquid chromatography;
- SN/T 1017.9 Importers in Grains topiramate fluoroacetate grass residues in spirit.

This section SN/T 1017 Part 7.

This section is in accordance with GB/T 1.1-2009 given rule drafting.

The partial replacement of SN/T 1017.7-2002 "cereals for export aldicarb, carbaryl, oxamyl, bendiocarb, pirimicarb residues detection Test methods. " This section compared with the SN/T 1017.7-2002, the main technical changes are as follows.

- This part of the increase of corn, wheat, soybean test sample matrix;
- Change gas chromatography is liquid chromatography, liquid chromatography - mass spectrometry/mass spectrometry, lower detection limit;
- Remove the sampling part;
- Optimized pretreatment methods.

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 section proposed and managed by the National Certification and Accreditation Administration Committee.

1 Scope

SN/T 1017 provisions of this part of the cereals for export aldicarb, carbaryl, oxamyl, bendiocarb, pirimicarb residues liquid chromatography Spectrum - Determination of mass spectrometry/mass spectrometry and liquid chromatography.

This section applies to exports of rice, corn, wheat and soybeans aldicarb, carbaryl, oxamyl, bendiocarb, pirimicarb five kinds of amino acid Determination of esters pesticide 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 Principle 3 Sample carbamate pesticides were extracted with acetonitrile extract was filtered and were then concentrated using GCB/amino Solid Phase Extraction After purification column or a gel permeation chromatography, liquid chromatography - mass spectrometry/mass spectrometer, 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. residual level.

4.2

methanol. residual level.

4.3

Cyclohexane. Residual level.

4.4

ethyl acetate. residual level.

4.5

toluene.

4.6

formic acid. HPLC fractions.

4.7

Sodium chloride. 140 °C baking 4h, cooled in a desiccator to room temperature and stored in a sealed bottle aside.

4.8

anhydrous sodium. 650 °C burning 4h, cooled in a desiccator to room temperature and stored in a sealed bottle aside.

4.9

acetonitrile - toluene (31 volume). Measure 60mL acetonitrile (4.1) and 20mL toluene (4.5) and mix.

4.10

cyclohexane - ethyl acetate (11 volume). The 1000mL of cyclohexane (4.3) and 1000mL of ethyl acetate (4.4) and mix.

4.11 0.2% aqueous formic acid. amount of 2.0mL of formic acid (4.6), water volume to 1000mL.

4.12

volume solution. take 80mL 0.2% formic acid (4.11), was added 20mL of acetonitrile (4.1) and mix.

4.13

Standard substances. aldicarb (molecular formula. $C_7H_{14}N_2O_2S$, CAS number. 116-06-3), carbaryl (molecular formula. $C_{12}H_{10}NO_2$,