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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 0125-2010

Replacing SN 0125-1992

Determination of trichlorfon resdus in meat and meat products for import and export. LC-MS method

进出口食品中敌百虫残留量检测方法 液相色谱-质谱/质谱法

(English Translation)

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Foreword

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

This standard replaces SN 0125-1992 "test method export meat and meat products trichlorfon residues." this standard compared with SN 0125-1992, the main technical changes are as follows.

--- Use of indicators including the contents of the original standard;

--- Using gas chromatography mass spectrometry;

--- Increase positive confirmation content;

--- Integrated pre-treatment conditions.

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.

This standard was drafted. Jilin People's Republic of China Exit Inspection and Quarantine, People's Republic of China Tianjin Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the agricultural exports trichlorfon residues LC - MS/MS method for the detection and confirmation.

This standard is applicable to the export of canned steamed pork, pork, chicken, beef, fish, sausage, brown rice, corn, onions, walnuts trichlorfon residues Remaining contents.

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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, undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis

3 Method summary

Samples with cyclohexane ethyl acetate (11 volume) extraction by gel permeation chromatography, eluted with methanol-water (11 volume) constant volume, for liquid chromatography - mass spectrometry/mass spectrometer, external standard.

4 Reagents and materials

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

4.1
Cyclohexane. HPLC fractions.

4.2
Methanol. HPLC fractions.

4.3
ethyl acetate. residual level.

4.4
over anhydrous sodium. 650 °C burning 4h, stored in a sealed container for later.

4.5
Cyclohexane Ethyl acetate. (11 volume). amount of 100mL and 100mL cyclohexane, n-hexane, and mix.

4.6
ammonium acetate. pure class distinctions.

4.7 50mmol/L ammonium acetate solution. Weigh 0.385g of ammonium acetate dissolved in 1000mL water.

Trichlorfon 4.8 standard (trichlorfon, CAS number. 52-68-6, molecular formula. C4H8Cl3O4P). not less than 98.0% purity.

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4.9
trichlorfon standard stock solution. accurately weighed amount of trichlorfon standards, prepared in methanol at a concentration of 100μg/mL of standard stock Preparation of the solution. The solution was stored at 0 °C ~ 4 °C refrigerator.

4.10
trichlorfon standard solution. as needed trichlorfon standard stock solution (3.10) diluted to a suitable concentration of the standard work with methanol as a solution. The solution was stored at 0 °C ~ 4 °C refrigerator.

4.11
organic microporous membrane. 0.20μm, 0.45μm.

5 Instruments and equipment

5.1
Liquid chromatography - mass spectrometry/mass spectrometer. with electrospray ionization (ESI).

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