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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 0217-2014

Replacing SN 0217-1993; SN 0219-1993; SN/T 0932-2000

Determination of multiple pyrethroid residues in plant food for export. GC-MS method

出口植物源性食品中多种菊脂残留量的检测方法 气相色谱-质谱法

(English Translation)

Issued on: January 1, 1970 **Implemented on: January 1, 1970**

Issued by: General Administration of Customs

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Foreword

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

This standard replaces SN 0217-1993 "vegetables for export permethrin, cypermethrin, fenvalerate, deltamethrin residues in";

SN 0219-1993 "deltamethrin residues in cereals for export testing methods" and SN/T 0932-2000 "permethrin residues in cereals for export Amount of inspection. " Compared with SN 0217-1993, SN 0219-1993 and SN/T 0932-2000, in addition to editorial changes, the major technical modifications as follows.

--- Standard Scope extended from corn, cauliflower, mushrooms and tea to rice, corn, rice, cauliflower, pineapple and mushrooms;

--- Increased cyfluthrin, cyhalothrin, and determination of the content fenpropathrin bifenthrin;

--- Omitted sampling procedure.

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.

This standard was drafted. People's Republic of China Shanghai Entry-Exit Inspection and Quarantine Bureau, Shanghai Institute of Technical Supervision quality inspection.

1 Scope

This standard specifies the foods bifenthrin, fenpropathrin, cyhalothrin, permethrin, cyfluthrin, cypermethrin, permethrin, fluorine Silicon permethrin, fenvalerate and deltamethrin residues by gas chromatography - mass spectrometry method.

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This standard applies to tea, corn, rice, cauliflower, pineapple, mushrooms bifenthrin, fenpropathrin, cyhalothrin, permethrin, chlorofluorocarbons Cyhalothrin, cypermethrin, permethrin, fluorosilicone permethrin, fenvalerate and deltamethrin residues in the detection and confirmation.

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

3 Method summary

Sample residues pyrethroids with acetone - n-hexane and the extracts were dried over charcoal and Florisil SPE column using gas chromatography Spectrum - mass spectrometer, external standard.

4 Reagent material

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

4.1
acetone. chromatography.

4.2
hexane. chromatographically pure.

4.3
ethanol.

4.4
anhydrous sodium. at 650 °C in burning 4h, stored in a sealed container in the back.

4.5
acetone - n-hexane (11 volume) solution. amount of 500mL of acetone and n-hexane to 1000mL 500mL reagent bottle.

4.6
ether - acetone - n-hexane (442 volume) solution. Measure 400mL of diethyl ether, 400mL acetone and 200mL hexane to 1000mL reagent bottle.

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4.7

Pesticide Standards. bifenthrin (bifenthrin, CAS number. 82657-04-3); fenpropathrin (fenpropathrin, CAS number.

39515-41-8); cyhalothrin (cyhalothrin, CAS number. 91465-08-6). permethrin (permethrin, CAS number. 52645-53-1);

Cyfluthrin (cyfluthrin, CAS number. 68359-37-5); cypermethrin (cypermethrin, CAS number. 52315-07-8); permethrin (Ethofenpro, CAS number. 80844-07-1); silafluofen (silafluofen, CAS number. 105024-66-6). fenvalerate (fenvalerate, CAS. 51630-58-1). deltamethrin (deltamethrin, CAS number. 52918-63-5).

4.8

preparation of standard stock solution. Weigh about 0.01g (accurate to 0.0001g) bifenthrin, fenpropathrin, cyhalothrin, permethrin Ester, cyfluthrin, cypermethrin, permethrin, fluorosilicone permethrin, fenvalerate and deltamethrin standards in 10mL volumetric flask with Acetone formulated to about 1000μg/mL standard stock solution of less than 5 °C stored.

Preparation of intermediate 4.9 mixed standard solution. Pipette each stock standard solution 1.00mL 100mL flask to the above, diluted with acetone to the scale, less than 5 °C dark preservation, storage period of three months.

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