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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3861-2014

Determination of hexachlorovaraxrene residues in foodstuffs for export

出口食品中六氯对二甲苯残留量的检测方法

(English Translation)

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Preview: page 1 of 4 shown, 14 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword
1 Scope
2 Normative references
3 Method summary
4 Reagents and materials
5 Apparatus

Foreword

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

Please note that some content of this document may involve patents, publication of this document Institutions do not assume the responsibility to identify 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 Hunan Exit Inspection and Quarantine, People's Republic of China Entry-Exit Inspection and Xiamen Quarantine Bureau.

1 Scope

This standard specifies the gas chromatographic methods in food six chlorine xylene residues.

This standard applies to rice, cabbage, apple, tea, chicken, fish, pork, beef liver, beef kidney, citrus, milk sixth chlorine residual p-xylene Determination of the amount 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

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3 Method summary

Sample with acetone - water mixtures oscillation and the extracts were washed with n-hexane liquid - distribution, the concentrated sulfuric acid sulfonation purification, with Equipped with electron capture detector of gas chromatography were determined by gas chromatography - mass spectrometry confirmed, 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
acetone. HPLC grade.

4.2
hexane. HPLC grade.

4.3
Concentrated sulfuric acid. pure class distinctions.

4.4
six-chloro-p-xylene standards (hexachloroparaxylene, C8H4Cl6, CAS. 68-36-0). purity greater than or equal to 99%.

4.5
standard stock solution. Weigh accurately 50mg (accurate to 0.1mg) six-chloro-p-xylene standards in 50mL volumetric flask, with the amount of propylene Ketone (4.1) was dissolved with acetone and dilute to 50mL, shake, formulated as standard stock solution 1000μg/mL, and stored in the dark to the following 4 °C, Valid for six months.

4.6
standard intermediate solution. Imbibe 1.0mL standard stock solution (4.5) in 100mL flask, diluted with acetone (4.1) and fixed Volume to 100mL, shake, formulated as 10μg/mL standard intermediate solution, dark save for the following 4 °C, valid for three months.

4.7
standard solution. Pipette appropriate amount of the intermediate standard solution (4.6) based on testing needs, the preparation was diluted with n-hexane concentrations were 0.002mg/L, 0.005mg/L, 0.01mg/L, 0.02mg/L, 0.05mg/L, 0.1mg/L, 0.2mg/L of standard solution.

The standard solution prepared before use required.

Preview: page 3 of 4 shown, 14 in the full document. Complete English PDF, instant download:
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5 Apparatus

5.1

Gas chromatograph. equipped with electron capture detector (ECD).

5.2

Gas chromatography - mass spectrometry. with electron impact ionization (EI).

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