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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3725-2013

Determination of 4. chlorophenoxyacetic acid residues in foods for export

出口食品中对氯苯氧乙酸残留量的测定

(English Translation)

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Foreword

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

Some elements of this document may involve patents. Distribution 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 Zhuhai Entry-Exit Inspection and Quarantine Bureau, Xiamen People's Republic of China Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the foods chlorophenoxy acid residues in liquid chromatography - mass spectrometry/mass spectrometry.

This standard applies to eggplant, tomatoes, sprouts, apples, citrus, litchi, grapes, rice, corn, soybeans, pork, shrimp, honey, tea the chlorophenoxy acid residues measured and confirmed.

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 of chlorobenzene oxygen extracted with ethyl acetate, the anion exchange solid phase extraction (SPE), liquid chromatography - mass spectrometry/mass Spectroscopy, 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
acetonitrile. chromatography.

4.2
formic acid. Chromatographic pure.

4.3
Methanol. chromatographically pure.

4.4
sodium hydroxide.

4.5
ethyl acetate.

4.6
n-hexane.

4.7
sodium chloride.

4.8
Ammonia (25%).

4.9 0.02mol/L sodium hydroxide solution. Weigh 0.8g of sodium hydroxide dissolved in 1000mL water.

4.10 2% aqueous ammonia solution. Measure 8mL25% aqueous ammonia in 100mL flask, add water to 100mL, and mix.

4.11 2% formic acid. volume of 2mL acid in 100mL flask, add water to 100mL, and mix.

4.12 30% methanol in water (containing 2% formic acid). Measure 30mL 2mL of methanol and formic acid in 100mL volumetric flask, add water to 100mL, and mix.

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4.13

methanol solution of 2% formic acid. volume of 2mL acid in 100mL flask, add water to 100mL, and mix.

4.14 0.1% formic acid. 1mL amount of acid in 1000mL volumetric flask, add water to 1000mL, and mix.

4.15

pairs of chlorophenoxy acid standard substance. 4-chlorophenoxyaceticacid, 4-CPA, CAS number. 122-88-3, purity of greater than or equal at 98%.

4.16

pairs chlorophenoxy acetic acid standard stock solution. accurately weighed amount of reference material, prepared in methanol at a concentration of 1.0mg/mL standard

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