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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3859-2014

Determination of butralin pestcide residue in foodstuffs for export

出口食品中仲丁灵农药残留量的测定

(English Translation)

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Foreword

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

Please note that some of the content 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. Chongqing, People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the foods butralin residues gas chromatography and gas chromatography - mass spectrometry/mass spectrometry confirmation methods.

This standard applies to rice, soybeans, pears, watermelons, tomatoes, cabbage, eggplant, pumpkin, carrots, pork, liver, chicken in butralin Determination of 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

3 Method summary

The sample remaining in the spirit of sec-n-hexane - acetone solution extract, the extract by gel permeation chromatography and solid phase extraction (SPE), with Gas

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chromatography - electron capture detector (ECD) detection and gas chromatography - mass spectrometry/mass spectrometry confirmed, 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
hexane. chromatographically pure.

4.2
acetone. chromatography.

4.3
cyclohexane.

4.4
ethyl acetate.

4.5
sodium chloride.

4.6
anhydrous sodium. 650 °C burning 4h, cooled in a desiccator to room temperature and stored in a sealed bottle aside.

4.7
butralin standard substance. purity >=98.5%, CAS. 33629-47-9.

4.8
standard stock solution. Weigh accurately take the right amount of reference material, formulated with n-hexane at a concentration of 100mg/L standard stock solution of this solution it was stored at 0 °C ~ 4 °C.

4.9
standard solution. Apply the standard stock solution with n-hexane formulated to 0.01mg/L, 0.02mg/L, 0.05mg/L, 0.2mg/L, 0.5mg/L concentration of standard working solution, at 0 °C ~ 4 °C to save.

4.10
fluoro Rory silica SPE column. 1g/6mL or equivalent who fill 1cm high on anhydrous sodium sulfate prior to use 5mL n-hexane activation.

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4.11
microporous membrane. 0.45μm, organic.

5 Apparatus

5.1
Gas chromatography - mass spectrometry/mass spectrometry. equipped with electronic bombardment source (EI).

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