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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3643-2013

Determination of forchlorfenuron residue in fruits for export. LC-MS-MS method

出口水果中氯吡脲(比效隆)残留量的检测方法 液相色谱-串联质谱法

(English Translation)

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Preview: page 1 of 4 shown, 12 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

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. People's Republic of China Zhejiang Exit Inspection and Quarantine.

1 Scope

This standard specifies the fruits for export Forchlorfenuron (efficiency ratio Long) residual amount of liquid chromatography - tandem mass spectrometry.

This standard applies to grapes, measuring kiwi, watermelon, pears, oranges, apples and other fruits Forchlorfenuron (efficiency ratio Long) residues 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 Forchlorfenuron extracted with acetonitrile extract was N- secondary amine (PSA) after solid phase extraction and C18 filler dispersion, Liquid chromatography - tandem mass spectrometer, external standard.

Preview: page 2 of 4 shown, 12 in the full document. Complete English PDF, instant download:
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4 Reagents and materials

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

4.1
acetonitrile. pesticide grade.

4.2
methanol. pesticide grade.

4.3
ammonium acetate.

4.4
sodium chloride.

4.5 5mmoL/L aqueous ammonium acetate solution. Weigh 0.385g of ammonium acetate (4.3), was dissolved in 1000mL of water.

4.6
methanol - water (6040, volume ratio). precise amount of 60mL of methanol and 40mL water, mix and reserve.

4.7
Forchlorfenuron (Long efficiency ratio) standard substance (Forchlorfenuron, CAS No. 68157-60-8, C12H10ClN3O). purity of greater than or equal to at 99%.

4.8
Forchlorfenuron standard stock solution. Accurately weigh an adequate amount Forchlorfenuron standard substance (4.7), prepared in methanol at a concentration of 100μg/mL of Standard stock solution, -18 °C refrigerator.

4.9
Forchlorfenuron intermediate standard solution. Imbibe Forchlorfenuron right amount of standard stock solution (4.8), prepared in methanol concentration Intermediate standard solution 10μg/mL of, 0 °C ~ 4 °C refrigerator.

4.10
blank sample matrix solution. Select free sample analyte, the procedure of 7.1 and 7.2 was obtained in the blank sample matrix solution.

4.11
Forchlorfenuron standard matrix solution. draw the right amount of Forchlorfenuron

Preview: page 3 of 4 shown, 12 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3643-2013

intermediate standard solution (4.9) requires the use of a front, with a blank sample matrix Solution (4.10) formulated into an appropriate concentration of the standard substrate solution, 0 °C ~ 4 °C stored in a refrigerator before use formulation.

4.12

over anhydrous magnesium. calcined before use at 500 °C 5h, removed, cooled in a desiccator to room temperature and stored in a sealed bottle for use.

4.13

N- secondary amine (PSA) packing. 50μm, 8.4% C, 3.3% N, or equivalent person.

4.14

C18 packing. 40μm ~ 63μm, or equivalent person.

Preview: page 4 of 4 shown, 12 in the full document. Complete English PDF, instant download:
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