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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3699-2013

Determination of four thiazole fungicide residues in food of plant origin for export. HPLC-MS/MS method

出口植物源食品中4种噻哇类杀菌剂残留量的测定液相色谱-质谱/质谱法

(English Translation)

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Foreword

This standard is prepared 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, Shenzhen CIQ, Shenzhen Inspection and Quarantine Science Research Institute, the Chinese people Republic Xiamen CIQ.

1 Scope

This standard specifies the plant-derived food Turkey benomyl, ethaboxam, octyl thiophene and benzene chlorthalidone thiocyanate liquid chromatography - mass spectrometry/mass spectrometry and Confirmatory methods.

This standard applies to soybeans, corn, wheat, grapes, watermelon, cabbage, tea and onion Turkey benomyl, ethaboxam, octyl thiophene sulfur and benzene chlorthalidone Determination of cyanide.

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

The sample was extracted with acetonitrile residues thiazole fungicides, solid-phase extraction (SPE), liquid chromatography - mass spectrometry/mass spectrometry and confirmed, the outer Standard method.

4 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade, water GB/T 6682 provisions 1 water.

4.1
Methanol. HPLC fractions.

4.2
acetonitrile. HPLC fractions.

4.3
Toluene. HPLC fractions.

4.4
formic acid. HPLC fractions.

4.5
sodium chloride.

4.6
ammonium acetate. high-purity reagents, 99.999%.

4.7
aqueous acetonitrile (32 volume). Measure 60mL acetonitrile (4.2), was added 40mL of water, and mix.

4.8
acetonitrile - toluene solution (31 volume). Measure 150mL acetonitrile (4.2), was added 50mL of toluene (4.3), and mix.

4.9 5mmol/L ammonium acetate aqueous solution (containing 0.05% formic acid). Weigh 0.385g of ammonium acetate (4.6), formic acid was added 0.5mL (4.4), with Dissolved in water and dilute to 1L, and mix.

4.10
Standard substances. etridiazole, octyl thiophene and benzene chlorthalidone thiocyanate content of more than 98%; ethaboxam concentration of 10mg/L (the relevant chemical

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information See Appendix A in Table A.1).

4.11

standard stock solution. namely, accurately weighed amount of etridiazole, octyl thiophene and benzene chlorthalidone thiocyanate standard substance (4.10) with acetonitrile (4.2) with Having a concentration of 1000mg/L of standard stock solution; 10mg/standard solution ethaboxam methanol solution preparation of the L, -18 °C to Stored in the dark.

4.12

intermediate mixed standard solution. to draw the appropriate amount of each standard stock solution (4.11), diluted with acetonitrile (4.2) to prepare a 5.0mg/L mixed

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