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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3642-2013

Replacing SN 0281-1993

Determination of metalaxyl residues in fruits for export. GC/MS method

出口水果中甲霜灵残留量检测方法 气相色谱-质谱法

(English Translation)

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Foreword

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

This standard replaces SN 0281-1993 "Metalaxyl residues in fruits for export." this standard compared with SN 0281-1993, the main technical changes are as follows.

--- Adjustment clause choreography;

--- Change the pre-treatment methods;

--- Use GC-MS determination.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of 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 residues in fruits for export metalaxyl gas chromatography - mass spectrometry method.

This standard applies to the determination of export apples, oranges, pears, peaches, grapes, persimmons and other fruits metalaxyl residues and confirmation.

2 Method summary

The samples were extracted with acetonitrile, the solid-phase extraction (SPE), using gas chromatography - mass spectrometry in selected ion monitoring mode was measured,

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external standard method Quantified.

3 Reagents and materials

Unless otherwise specified, all reagents were of analytical grade, water is deionized water.

3.1
acetonitrile. liquid chromatography.

3.2
Toluene. liquid chromatography.

3.3
hexane. liquid chromatography.

3.4
sodium chloride.

3.5
anhydrous sodium. 650 °C burning 4h, stored in a sealed container in the back.

3.6
acetonitrile - toluene (73 volume). Take 30mL of toluene and 70mL of acetonitrile mixed.

3.7
metalaxyl standards. purity of greater than 99%.

3.8
standard solution. Accurately weigh an adequate amount of metalaxyl standard (3.7), with n-hexane was dissolved and set the volume to 100mL brown bottle flask, A concentration of 200μg/mL standard stock solution. Hexane stock solution and then diluted as needed to prepare a suitable standard working concentration Solution, this solution was stored at (0 ~ 4) °C conditions.

3.9
Amino-SPE. 3mL, 0.5g or equivalent person.

3.10
Activated carbon SPE. 3mL, 0.5g or equivalent person.

4 Instruments and equipment

4.1
Gas chromatography - mass spectrometer, equipped with an electronic bombardment source (EI).

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4.2
rotary evaporator.

4.3
Solid phase extraction device.

4.4
nitrogen blowing concentrators.

4.5
muffle furnace.

4.6
vortex mixer.

4.7
Centrifuge. >=4000r/min.

4.8
Balance. a sense of volume, respectively 0.01g and 0.1mg.

4.9
concentrated bottle. 100mL.

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