

ICS 67.050
CCS X 04

SN

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 1477-2012

Replacing SN/T 1477-2004

Determination of paclobutrazol residues in food for export

出口食品中多效唑残留量检测方法

(English Translation)

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Table of Contents

Foreword
1 Scope
2 Method summary
3 Reagents and materials
4 Instruments and equipment
5 Sample preparation and preservation
5.1 Sample Preparation

Foreword

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

Instead of the standard SN/T 1477-2004 "import and export food paclobutrazol residues in" this standard compared with SN/T 1477-2004, the main technical changes are as follows.

- Remove the sampling step;
- Homemade Florisil column to column commercialization;
- Modify the lower limit of detection.

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. Chinese Academy of Inspection and Quarantine.

1 Scope

This standard specifies the MET residues in food for export of gas chromatography - mass spectrometry.

This standard is applicable to the export of rice, pears paclobutrazol residues determination.

2 Method summary

With acetone or ethyl acetate - acetone mixture to extract the sample remaining MET, Florisil solid-phase extraction (SPE) and gas chromatography -Mass spectrometry (GC-MS) detection, external standard.

3 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade.

3.1

acetone. pesticide grade.

3.2

hexane. pesticide grade.

3.3

ethyl acetate. pesticide grade.

3.4

ethyl acetate - acetone mixture. Take 20mL acetone, diluted to 100mL with ethyl acetate.

3.5

eluent (n-hexane - acetone mixture). Take 5mL acetone, diluted to 100mL with n-hexane.

3.6

eluent (n-hexane - acetone mixture). Take 15mL acetone, diluted to 100mL with n-hexane.

3.7

MET standard substance. purity $\geq 99\%$.

3.8

MET standard solution. Accurately weigh an adequate amount of MET standard substance (accurate to 0.1mg), dissolved in a small amount of acetone, hexane Preparation of a concentration of 100 μ g/mL of the standard stock solution. Diluted to concentrations applicable standard working solution with n-hexane as needed.

3.9

anhydrous sodium. 650 °C burning 4h, placed in the dryer to save.

3.10

Florisil SPE column. 2g, 12mL.

4 Instruments and equipment

4.1

Gas chromatography - mass spectrometry. equipped with an electronic bombardment source.

4.2

rotary evaporator.

4.3

oscillator.

4.4

conical flask. a grinding gag, 250mL.

4.5

pear-shaped bottle. 250mL.

5.1.1 Cereals

Take representative samples of about 500g, crushed with a grinder, mixing, they are divided into two, respectively, into a clean container as a sample, sealed and labeled SN/T 1447-2012