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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3115-2012

Determination of chlorfenapyr content of pesticides. High performance liquid chromatography

农药虫螨腈含量的测定 高效液相色谱法

(English Translation)

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Foreword

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

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Shaanxi Exit Inspection and Quarantine.

1 Scope

This standard specifies the method for the analysis of pesticide carbofuran nitrile content by HPLC.

This standard applies to chlorfenapyr original drug, 10% chlorfenapyr suspension (also known as divisible) and 8% chlorfenapyr suspension of chlorfenapyr content Determination.

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.

GB/T 1605 sampling commercial pesticides Laboratory use specifications and test methods GB/T 6682 Analysis

3 Method summary

The sample was dissolved in methanol and set the volume, filtered through a C18 column separated, with a UV detector or diode array detector high Performance liquid chromatograph testing, retention time qualitative, external standard.

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4 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade water as a water GB/T 6682 stipulated.

4.1
Methanol. HPLC grade.

4.2
chlorfenapyr standard substance. purity >=98% (chlorfenapyr, CAS number. 122 453 730).

Preparation 4.3 standard stock solution. Weigh chlorfenapyr Standards 0.05g (accurate to 0.0002g) in 100mL flask, add 80mL of methanol (4.1). The flask was placed in an ultrasonic bath ultrasonic 5min, washed with methanol (4.1) to the mark, shake. The standard Stock solution is placed within 0 °C ~ 5 °C refrigerator spare, valid for six months.

4.4
Membrane. quality nylon or regenerated cellulose, organic, 0.45μm.

4.5
syringe filters. Nylon quality, diameter 13mm.

4.6
centrifuge tube. 50mL, quality polypropylene, with a stopper.

5 Instruments and equipment

5.1
High performance liquid chromatograph. equipped with a UV detector or diode array detector.

5.2
solvent filtration apparatus.

5.3
vacuum pump.

5.4
ultrasonic cleaner.

5.5
Analysis of balance. a sense of the amount of 0.0001g.

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