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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3788-2014

Determination of four organochlorine pesticides on import and export textiles - Gas chromatography method

进出口纺织品中四种有机氯农药的测定 气象色谱法

(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 Hebei Entry-Exit-Entry Inspection and Sichuan People's Republic of China Quarantine Bureau.

1 Scope

This standard specifies the different textiles aldrin (Isodrin), chlordecone (Kepon), B drops tears (Perthan) and carbon-chloro-Ling (Telodrin) Four kinds of organochlorine pesticides - Gas chromatographic method.

This standard applies to all kinds of textile materials and products in different aldrin, chlordecone, B and C drop tears Ling four organic chlorine pesticides Determination.

Principle 2

Sample with acetone - n-hexane solution (14 volume fraction) by ultrasonic extraction, concentration, hexane was dissolved constant volume through the membrane, the electronic distribution Capture detector gas chromatograph (GC/ECD) determination, external standard.

3 Reagents and materials

Unless otherwise specified, all reagents were of analytical grade.

3.1
hexane. HPLC fractions.

3.2
acetone. HPLC fractions.

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3.3
acetone - n-hexane (14, volume fraction). Take hexane 80mL, adding acetone 20mL, mix.

3.4
Standard. purity of not less than 97.0%, see Appendix A.

3.5
standard stock solution. Accurately weigh each standard substance respectively take the right amount (accurate to 0.1mg), with acetone (3.2) are formulated into quality Concentration of standard stock solution 100μg/mL of.

NOTE: The standard stock solution stored in the dark to the following 0 °C ~ 4 °C, valid for 12 months.

3.6
mixed standard working solution. n-hexane to a suitable concentration serial dilution series of mixed standard working solution needed then.

Note: The mixed standard working solution stored in the dark to the following 0 °C ~ 4 °C, valid for six months.

3.7
microporous membrane. 0.22μm.

4 Instruments and equipment

4.1
Gas chromatograph. equipped with electron capture detector.

4.2
Analysis of balance. a sense of volume, respectively 0.1mg and 0.01g.

4.3
ultrasonic generator. Operating frequency 50Hz.

4.4
rotary evaporator.

4.5
heart-shaped bottle. 100mL.

4.6
conical flask. a grinding gag, 50mL.

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