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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3225.4-2012

Textiles. Determination of triclosan. Part 4: Gas chromatography-tandem mass spectrometry method

纺织品 三氯生的测定 第4部分：气相色谱/串联质谱法

(English Translation)

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Foreword

SN/T 3225 "Determination of triclosan Textiles" is divided into four parts.

--- Part 1. High performance liquid chromatography;

--- Part 2. gas chromatography;

--- Part 3. Gas chromatography - mass spectrometry;

--- Part 4. Gas chromatography/tandem mass spectrometry.

This section SN/T 3225 Part 4.

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

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

1 Scope

SN/T 3225 provisions of this part of the gas chromatography/tandem mass spectrometry in textiles triclosan method for the determination.

This section applies to the determination of textile materials and products triclosan.

Principle 2

Sample ultrasonic extraction with chloroform, the extract was concentrated and after treatment, transferred to a solution of sodium tetraborate, after acetic anhydride acetylation positive Hexane extraction, gas chromatography/tandem mass spectrometry, external standard.

3 Reagents and materials

Unless otherwise stated, use only recognized as analytical reagents. Water is in line with two water GB/T 6682 regulations.

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3.1
chloroform.

3.2
Methanol. chromatographically pure.

3.3
hexane. chromatographically pure.

3.4
acetic anhydride. purity >=98.5%.

3.5
sodium tetraborate solution. concentration of 0.1mol/L, weighed 38.1g sodium tetraborate, dissolved in water, dilute to 1000mL.

3.6
Standard. triclosan, CASN o.3380-34-5, purity > 99.5%.

3.7
standard stock solution. accurately weighed amount of standard (3.6) to prepare a concentration of methanol (3.2) is 1000mg/L standard stock Solution.

3.8
standard solution. Standard stock solution Pipette an appropriate volume (3.7), stepwise diluted with methanol (3.2), formulated as required as required Standard working solution concentration.

NOTE: The standard stock solution at 0 °C ~ 4 °C stored in a refrigerator for a period of six months. Standard working solution at 0 °C ~ 4 °C stored in a refrigerator for a period of 3 months.

4 Instrument

4.1
Gas chromatography/tandem mass spectrometer.

4.2
rotary evaporator.

4.3
ultrasonic generator.

4.4
Oscillator. do horizontal ring oscillator frequency of 50 times/min ~ 150 times/min.

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4.5

nitrogen blowing instrument.

4.6

The organic phase filtration membranes. 0.45μm.

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