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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 4021-2014

Determination of residues of toxaphene in fish oil and feedingstuffs for export

出口鱼油和鱼饲料中毒杀芬残留量的检测方法

(English Translation)

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Preview: page 1 of 4 shown, 12 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword
1 Scope
2 Normative references
3 Preparation and Storage of samples
4 Determination
4.1 Method summary
4.2 Reagents and materials

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 Shanghai Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the fish oil and fish feed toxaphene flag residues by gas chromatography - mass spectrometry/mass spectrometry.

This standard applies to fish oil and fish feed flag toxaphene residues detected.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the edition for text Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis

3 Preparation and Storage of samples

3.1

In the sample preparation procedure, it should prevent sample contamination or the occurrence of the change of residue content. Samples should be stored at room temperature.

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3.2
fish oil capsules (pills) Samples. All samples taken from, and take about 50 capsules (pills), after breaking the cut, extruded fish oil.

3.3
fish feed. Remove all the samples taken from a representative sample of about 100g, with pulverizer, through a pore size of 0.85mm sieve (20 mesh), are divided into two, into the clean container, as a sample. Sealed and marked with tags.

4.1 Method summary

The sample was extracted toxaphene flag residue with anhydrous ether extract was concentrated sulfuric acid sulfonation purification, washed with 2% sodium sulfate solution After dehydration over anhydrous sodium sulfate cartridge. With negative chemical ionization gas chromatography - mass spectrometer, external standard.

4.2 Reagents and materials

Unless otherwise specified, all reagents were of analytical grade water as a water GB/T 6682 regulations.

4.2.1
Concentrated sulfuric acid. (rho about 1.84g/mL).

4.2.2
n-hexane. chromatographically pure.

4.2.3
anhydrous ether. chromatography.

4.2.4
Anhydrous sodium sulfate. ignition at 650 °C for 4h, cooled storage in a closed container in the back.

4.2.5 2% sodium sulfate solution. Weigh 2.0g sodium sulfate, was added 100mL of water.

4.2.6
toxaphene standard solution. Toxaphene -ParlarNo.26 (CHB-26); toxaphene -ParlarNo.50 (CHB-50); toxaphene -ParlarNo.62 (CHB-62); are configured to concentration 1μg/mL standard stock solution in iso-octane.

4.2.7
toxaphene mixed standard working solution. if necessary, draw the appropriate amount of each standard solution toxaphene, after pre-treatment with a blank group the quality of toxaphene standard solution was diluted to the appropriate concentration of standard

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working solution.

Preview: page 4 of 4 shown, 12 in the full document. Complete English PDF, instant download:
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