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SN

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

SN/T 0502-2013

Replacing SN 0502-1995

**Determination of toxaphene residues in aquatic products for
export. GC method
(English Translation)**

Issued on: January 1, 1970

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Foreword

Accordance with the standards GB/T 1.1-2009 given rules drafted.

This standard replaces SN 0502-1995 "Fern residues in aquatic products for export poisoned." this standard compared with SN 0502-1995, in addition to editorial changes outside the main technical changes are as follows.

- Standard name "Fern residues in aquatic products for export poisoned" by a modification of the "export of aquatic toxaphene residues measure GC set";
- Expand the scope of the standard detection object;
- Deletion of a portion of the sample;
- Improved sample preparation techniques;
- Reducing the lower limit of detection, and detection of different objects, given the recovery of different substrates by adding different concentrations of the standard substance range.

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

This standard was drafted. People's Republic of China Shandong CIQ.

1 Scope

This standard specifies the gas chromatographic method sample preparation aquatic products for export and toxaphene residues.

This standard applies to cod, scallops, shrimp, crab toxaphene residues detected.

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.

Laboratory use specifications and test methods GB/T 6682 Analysis

3 Sample Preparation and Storage

Samples taken in the edible parts of representative about 500g, mix well with mashed masher organizations are divided into two, respectively, into a clean container as a sample, sealed and marked with tags. The sample was placed in -18 °C stored.

4.1 Method summary

Toxaphene in the sample by using acetone - n-hexane mixture was extracted with n-hexane saturated acetonitrile solution was dispensed, florisil column net Oriented and concentrated, determined by gas chromatography, normalized and quantified.

4.2 Reagents and materials

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

4.2.1

Anhydrous sodium sulfate. After burning 650 °C 4h, cooled to room temperature, store in an airtight desiccator.

4.2.2

acetonitrile. chromatography.

4.2.3

n-hexane. chromatographically pure.

4.2.4

acetone. chromatography.

4.2.5

acetone - hexane mixture solution (11 volume). Measure 250mL of acetone, 250mL of n-hexane was added, and mix.

4.2.6 20g/L of sodium sulfate solution. Weigh 20.0g of solid anhydrous sodium sulfate was added 500mL of water, plus side oscillation, so that no Aqueous sodium completely dissolved, add water to the final volume to 1L.

4.2.7

n-hexane saturated acetonitrile solution. 20mL of n-hexane was added 100mL of acetonitrile, followed by sufficient shaking, standing stratification, lower B Nitrile layer alternate.

4.2.8

hexane - ethyl acetate solution (955 volume). Measure 25mL of ethyl acetate, diluted with 475mL hexane.

4.2.9

Florisil. 450 °C burning 2h, cooled storage backup in a desiccator.

4.2.10

Florisil column. 300mm x 15mm (inner diameter) glass column, built with 5g Florisil, top and bottom, respectively, containing