

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

SN 0692-1997

Replacing SN 0692-1997

**Determination of strobane residues in meats and meat products
for export. CC-MS method
(English Translation)**

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Foreword

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

This standard replaces SN 0692-1997 "turpentine chloride residues in meat and meat products for export." this standard compared with SN 0692-1997, the main changes are as follows.

- Abolition of the "sampling and sample preparation," adds "Sample Preparation and Storage" (see Chapter 5, Chapter 2, 1997 edition);
- Sample extraction by the Soxhlet extraction method to extract high-speed vortex (see 61, 1997 version 3.4.1.);
- Sample purification method consists of two sulfonated gel permeation purification to purify (see 62, 1997 edition of 3.4.2 and 3.4.4.);
- Canceled the step of sample extract in methanol was added a solution of potassium hydroxide dehydrochlorination (see the 1997 version 3.4.3);
- Determination by gas chromatography to gas chromatography - mass spectrometry (see 63, 1997 edition of 3.4.5.);
- Quantitative methods limit the 0.2mg/kg amended to 0.01mg/kg (see 7.1, 4.1, 1997).

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

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

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

1 Scope

This standard specifies the export of meat and meat products turpentine chloride gas chromatography - mass spectrometry method.

This standard applies to pork, beef, lamb, chicken, bacon and floss in determining the amount of residual chloride, turpentine and confirmation.

2 Method summary

Sample chlorination residual turpentine using n-hexane-speed vortex extraction, gel permeation purification eluate was concentrated and volume for Gas chromatography - mass spectrometer and validation, external standard.

3 Reagents and materials

Unless otherwise specified, all reagents were of analytical grade, water is distilled water.

3.1

hexane. redistilled.

3.2

sodium chloride.

3.3

anhydrous sodium sulfate. After burning 650 °C 4h, the dryer use.

3.4

ethyl acetate.

3.5

cyclohexane.

3.6

cyclohexane - ethyl acetate solution (11 volume). Ethyl acetate (3.4), and cyclohexane (3.5) mixed in equal volumes.

3.7

turpentine chloride pesticide standards (Strobane, C₁₀H₉Cl₇, CAS. 8001-50-1). 99.5% purity.

3.8

standard stock solution. Weigh accurately 50mg turpentine chloride pesticide standards (accurate to 0.1mg) in 50mL brown volumetric flask with N-hexane (3.1) and dissolve to volume, shake, formulated to a concentration of 1000µg/mL standard stock solution.

Standard stock solution at 0 °C ~ 4 °C stored.

3.9

standard intermediate solution. Imbibe 1.0mL standard stock solution in 100mL brown volumetric flask, dissolve and n-hexane (3.1) to volume, formulated at a concentration of 10µg/mL standard intermediate solution. Intermediate standard solution was stored at 0 °C ~ 4 °C in the dark.

3.10

standard solution. intermediate standard solution Pipette a volume of serially diluted to the appropriate concentration of the working standard solution based on testing needs liquid. Standard working solution should be now with the current.

4 Instruments and equipment

4.1

Gas chromatography - mass spectrometry with chemical ionization (CI source).

4.2

Organization mashed machines.

4.3

Vortex device.

4.4

gel permeation chromatography.

4.5

nitrogen blowing instrument.

4.6

rotary evaporator.

4.7

high-speed centrifuge. 10000r/min.