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SN

INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

SN/T 0127-2011

Replacing SN 0127-1992; SN 0128-1992; SN 0129-1992; SN 0130-1992

Determination of BHCs DDTs and HCB residues in foods of animal origin for import and export. GC-MS method

进出口动物源性食品中六六六、滴滴涕和六氯苯残留量的检测方法 气相色谱-质谱法

(English Translation)

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Foreword

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

This standard replaces SN 0127-1992 "export milk and dairy BHC and DDT residues in", SN 0128-1992 "Export eggs and egg products BHC and DDT residues in", SN 0129-1992 "export of aquatic BHC and DDT Residue testing methods ", SN 0130-1992" bee export of BHC, DDT residues in. " this standard integration SN/T 0127, SN/T 0128, SN/T 0129 and SN/T 0130 and other industry standards.

This standard compared with SN 0127-1992, SN 0128-1992, SN 0129-1992 and SN 0130-1992, major technological changes as follows.

--- Extend the scope of the standard detection matrix;

--- Improved sample preparation techniques;

Alternative gas chromatography mass spectrometry, and use negative chemical ionization (GC-MS/NCI) Technical Verification - --- by gas chromatography.

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

This standard was drafted. People's Republic of China Jiangsu Entry-Exit Inspection and Quarantine Bureau.

Drafters of this standard. Shen Chong-yu, Shen Wei Jian, Zhao Yun increased, Liu Han, Woo, I can Yao, Gui Xi Wen, Gong Yuxia.

This standard replaces the standards previously issued as follows.

--- SN 0127-1992;

--- SN 0128-1992;

--- SN 0129-1992;

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--- SN 0130-1992.

Import and export food of animal origin BHC Detection of DDT and hexachlorobenzene residues Gas chromatography - mass spectrometry

1 Scope

This standard specifies the eggs, milk, Parmesan cheese, chicken liver, chicken thigh meat, beef, catfish, shrimp, royal jelly and honey and other foods of animal origin BHC and DDT and hexachlorobenzene residues by gas chromatography - mass spectrometry method.

This standard applies to eggs, milk, Parmesan cheese, chicken liver, chicken thigh meat, beef, catfish, shrimp, honey, royal jelly and other food BHC Determination of DDT and hexachlorobenzene residues and confirmation.

2 Method summary

Samples were extracted with hexane or acetone solvent extraction, sulfonation purification, gas chromatography - negative chemical ionization mass spectrometry was measured and confirmed by external standard Statutory amount.

3 Reagents and materials

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

3.1
hexane. chromatographically pure.

3.2
acetone. chromatography.

3.3
concentrated sulfuric acid.

3.4
anhydrous sodium sulfate. After burning 650 °C 4h, placed in a sealed container in the back.

3.5
sodium chloride.

3.6
aqueous sodium sulfate (20g/L). 20g of anhydrous sodium sulfate was dissolved in 1000mL of distilled water.

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3.7

The pesticide standards. BHC (alpha-BHC, CAS number. 319-84-6; beta-BHC, CAS number. 319-85-7; gamma-BHC, CAS Code Number. 58-89-9; delta-BHC, CAS number. 319-86-8), DDT (p, p'- DDD, p, p'-DDD, CAS number. 1022-22-6; p , p'- DDE, p, p'-DDE, CAS number. 72-55-9; o, p'- DDT, o, p'-DDT, CAS number. 789-02-6 and p, p ' - Didi Tears, p, p'-DDT, CAS number. 50-29-3) and HCB (hexachlorobenzene, CAS number. 118-74-1) Standard substance. purity not less than 98.0%.

3.8

Each pesticide standard stock solution. namely, accurately weighed amount of pesticide standards, diluted with acetone formulated to 100μg/mL of standard stock Preparation was stored at 4 °C (valid for 6 months).

3.9

pesticide mixed standard working solution. if necessary, were weighed each of the stock standard solution in the same volumetric flask, dilute with n-hexane to carve Degree, the preparation of standard working solution of appropriate concentration, stored at 4 °C (valid for three weeks).

3.10

microporous membrane. 0.45μm, organic phase.

4 Instruments and equipment

4.1

Gas chromatography - mass spectrometry. Configuration negative chemical ionization (NCI).

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