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SN

INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

SN/T 4014-2013

Determination of chloramine - B and chloramine - T residuesin foods for export - GC-MS/MS method

出口食品中苯磺酰氯胺钠和对甲苯磺酰氯胺钠残留量的测定 气相色谱-质谱/质谱法

(English Translation)

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Preview: page 1 of 4 shown, 16 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-4014-2013

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Method summary

4 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. Heilongjiang People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard provides the food for export phenylsulfonyl chloramine sodium and sodium-toluenesulfonyl chloramine residual gas chromatography - mass spectrometry/mass spectrometry method.

This standard applies to chicken, pork, beef, fish, eggs, beans, strawberries, milk, ice cream and honey phenylsulfonyl chloramine and sodium toluene Determination phenylsulfonyl chloramine residual amounts of sodium and confirmation.

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 Method summary

Sample phenylsulfonyl chloramine and sodium p-toluenesulfonyl chloramine residual sodium sulfite is reduced to benzenesulfonamide and p-toluene sulfonamide, with Liquid-liquid extraction with ethyl acetate, the GCB/amino complex solid-phase extraction (SPE), gas chromatography - mass spectrometry/mass spectrometer, external standard

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method Quantified.

4 Reagents and materials

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

4.1
acetonitrile. chromatography.

4.2
Toluene. chromatography.

4.3
ethyl acetate. chromatography.

4.4
glacial acetic acid.

4.5
sodium chloride.

4.6
sodium sulfite.

4.7
basic lead acetate.

4.8
anhydrous sodium sulfate. After burning 650 °C 4h, placed in the dryer set aside.

4.9
potassium ferrocyanide trihydrate.

4.10
sodium sulfite solution (2%). Weigh 2.0g of sodium sulfite, dissolved in water and dilute to 100mL.

4.11
acetic acid solution (5%). Pipette 5.0mL of glacial acetic acid, diluted with water and set the volume to 100mL.

4.12
potassium ferrocyanide solution (10%). Weigh 11.5g of potassium ferrocyanide trihydrate dissolved in water and dilute to 100mL.

Preview: page 3 of 4 shown, 16 in the full document. Complete English PDF, instant download:
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4.13

basic lead acetate solution (35%). Weigh 35.0g basic lead acetate dissolved in water and dilute to 100mL.

Preview: page 4 of 4 shown, 16 in the full document. Complete English PDF, instant download:
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