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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3636-2013

Determination of sulfate in foods for export. Ion chromatography method

出口食品中硫酸盐的测定 离子色谱法

(English Translation)

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Foreword

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

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

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

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

1 Scope

This standard specifies the ion chromatographic method sulphate content in food.

This standard applies to apples, pears, mixed fruit juice, concentrated apple juice, carrots, cabbage, lamb, chicken kidneys, milk, milk powder, wine and beer Determination of sulfate in food wine.

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 Principle 3 Sulfate contained in the sample water ultrasonic extraction, using anion exchange chromatography column separation, ion chromatography - conductivity detector measured outside Standard method.

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4 Reagents and materials

Unless otherwise specified, in the absence of specified requirements, the test reagents were analytical grade water GB/T 6682 provisions of secondary water.

4.1
Potassium hydroxide. pure class distinctions.

4.2
petroleum ether. boiling range (30 °C ~ 60 °C).

4.3
glacial acetic acid.

4.4
acetic acid solution (3%). amount of 3mL acetic acid in 100mL flask, with two water volume, and mix.

4.5
eluent. hydroxide eluent system occurs tank, or preparation of 20mmol/L and 70mmol/L potassium hydroxide (4.2) was added.

4.6
sulfate standard stock solution (1.00mg/mL). Weigh accurately 1.4786g by 105 °C drying to constant weight of anhydrous sodium sulfate (reference Reagent) or 1.8141g anhydrous potassium (reference reagent) dissolved in a little water, two, moved to 1000mL volumetric flask, constant volume. Also be used Certified reference substance solution.

4.7
sulfate working standard solution (100μg/mL). Imbibe 10.00mL sulfate standard stock solution (4.7) in 100mL Capacity After dilution bottle with water to volume, mix, dubbed sulfate concentration of 100μg/mL standard working solution.

5 Apparatus

5.1
Ion Chromatography. Electrical conductivity detector.

5.2
Analytical balance, sense of volume were 0.1mg and 1mg.

5.3
Centrifuge, speed up to 10000r/min, adaptation 50mL centrifuge tube.

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5.4

Organization mashed machines.

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