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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3842-2014

Determination of cinnamaldehyde in food for export - HPLC method

出口食品中桂醛的液相色谱法

(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. People's Republic of China Jiangsu Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the method of liquid chromatography detection of food for export cinnamaldehyde.

This standard applies to pears, fruit juice, ice cream, sauces, luncheon meat, sweets, cakes and determination of cinnamaldehyde chewing gum exports.

2 Normative documents

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

Samples with ethanol ultrasonic extraction solution of acetic acid in the sample cinnamic aldehyde, by high-speed centrifugation, the supernatant was millipore filtered and the

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filtrate by liquid color Spectrometer detection, external standard calibration curve.

4 Reagents and materials

Unless otherwise indicated in the analysis using only recognized as analytical reagents, water use GB/T 6682 specified in a water.

4.1
ethanol. HPLC fractions.

4.2
Methanol. HPLC fractions.

4.3
acetonitrile. HPLC fractions.

4.4
acetic acid. HPLC fractions.

4.5 0.1% acetic acid solution. amount of 1mL acetic acid, water volume to 1L, ultrasonic degassing, filtration reserve.

4.6
Ethanol 0.1% acetic acid solution (6535, volume ratio). amount of 650mL ethanol and 350mL0.1% acetic acid solution and mix.

4.7
cinnamaldehyde standards. C9H8O, CAS No. 104-55-2, purity of greater than or equal to 99.0%.

4.8
cinnamaldehyde stock standard solution. Accurately weigh the right amount of cinnamic aldehyde with methanol formulated in a standard stock solution 1mg/mL, and avoid at 0 °C ~ 4 °C Light, valid for three months.

4.9
cinnamaldehyde standard solution. Imbibe cinnamaldehyde stock standard solution 1mL in 100mL volumetric flask with methanol to volume, the preparation Cinnamaldehyde into standard solution 10μg/mL, and at 0 °C ~ 4 °C dark preservation, valid for one month.

4.10
microporous membrane. 0.45μm, organic phase.

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5 Apparatus

5.1

High performance liquid chromatograph. equipped with a diode array detector or a UV detector.

5.2

Analysis of balance. a sense of volume, respectively 0.01g and 0.01mg.

5.3

high-speed centrifuges.

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