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ICS 67.250
CCS X08

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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3875-2014

Food contact materials. Polymem. Determination of azodicarbonamide content. High performance liquid chromatography

食品接触材料 高分子材料 偶氮二甲酰含量的测定 高效液相色谱法

(English Translation)

Issued on: January 13, 2014 **Implemented on: August 1, 2014**

Issued by: General Administration of Customs

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Foreword

Accordance with the standards GB/T 1.1-2009 given rules to write.

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.

Drafters of this standard. Trade your celery, Kouhai Juan, Zhonghuai Ning, Zhang Min, Huangchen Yang, Wu Ke, Sun Wenwen.

Food contact materials - Polymer azodicarbonamide Determination by HPLC

1 Scope

This standard specifies the method of high performance liquid chromatography polymer-based food contact materials azodicarbonamide content.

This standard applies to the determination of polymer-based food contact materials azodicarbonamide content.

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

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3 Method summary

Samples were frozen ground, ultrasonic extraction twice with tetrahydrofuran at room temperature, extract nitrogen blowing at 40 °C nearly dry, with a 5% (volume fraction) II Dimethyl sulfoxide (DMSO) solution volume to 1mL, after 0.45μm membrane filtration for HPLC injection analysis, external standard method Quantified.

4 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade water as a water GB/T 6682 stipulated.

4.1
azodicarbonamide (C2H4N4O2, CAS number. 123-77-3). purity of greater than 99.0% (mass fraction).

4.2
tetrahydrofuran.

4.3
dimethyl sulfoxide.

4.4
Methanol. chromatographically pure.

4.5 5% (volume fraction) aqueous solution of dimethyl sulfoxide. accurate Pipette 5mL dimethyl sulfoxide (4.3) in 100mL flask, add water to volume.

4.6
azodicarbonamide stock standard solution (1.0mg/mL). Weigh accurately azodicarbonamide standard (4.1) 0.1g in 100mL capacity Flask, accurate to 0.0001g, dimethyl sulfoxide (4.3) to the mark.

4.7
Azodicarbonamide standard solution. Pipette an appropriate volume of azodicarbonamide standard stock solution (4.6), with 5% DMSO Aqueous solution (4.5) and diluting the series of standard working solution of the desired concentration.

4.8
aqueous membrane, 0.45μm.

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5 Instruments and equipment

5.1
High performance liquid chromatograph. equipped with a UV detector.

5.2
ultrasonic generator. 180W.

5.3
liquid nitrogen tank.

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