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INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

SN/T 3878-2014

Food contact materials. Polymers. Determination of azodicarbonamide in food simulants. High performance liquid chromatography

食品接触材料 高分子材料 食品模拟物中偶氮二甲酰胺的测定 高效液相色谱法

(English Translation)

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Foreword

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

Please note that some content of this document may involve patents, publication 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 a high performance liquid chromatographic method food simulants azodicarbonamide.

This standard applies to water, 3% (mass concentration) solution of acetic acid, 10% (volume fraction) ethanol solution of water and olive oil-based mimetics four kinds of food Determination of the content of products dimethylformamide mimetic azo.

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 GB/T 23296.1-2009 plastic food contact materials in a plastic substance restricted substances to foods and food simulants special Given the migration test methods and the determination of exposure to food simulants and conditions Selection Guide

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3 Method summary

Food simulants azodicarbonamide separated by HPLC using a UV detector for detection. Water-based food Mimetic by solid phase extraction column backward concentrated sample olive oil mimetic through N, N- dimethylformamide extracted backward like using 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
acetic acid.

4.3
ethanol.

4.4
olive oil.

4.5
Methanol. chromatographically pure.

4.6
N, N- dimethylformamide (hereinafter DMF).

4.7 3% (mass fraction) acetic acid solution. Weigh 30g (accurate to 0.1g) in glacial acetic acid (4.2) in 1L flask, water volume.

4.8 10% (by volume) ethanol. Measure 100mL anhydrous ethanol (4.3) in 1L flask, water volume.

Azodicarbonamide stock standard solution (1.0mg/mL) 4.9 water-based food simulants used. Weigh accurately azodicarbonamide standard Product (4.1) 0.1g in 100mL flask, accurate to 0.0001g, with DMF (4.6) to the mark at 0 ~ 4 °C sealed from light protection Deposit, valid for three months.

Azodicarbonamide stock standard solution (1.0mg/g) 4.10 Olive oil mimetic used. Weigh accurately azodicarbonamide standard (4.1) 0.1g in 100mL flask, accurate to 0.0001g, and then adding a certain amount of olive oil (4.4) to the flask, the total mass of the solution

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100.0g, accurate to 0.0001g, 0 ~ 4 °C stored in sealed dark period of three months.

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