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INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

SN/T 3652-2013

Food contact materials. Polymers. Determination of diphenyl carbonate in food simulants. High performance liquid chromatography(HPLC)

食品接触材料 高分子材料 食品模拟物中碳酸二苯酯的测定 高效液相色谱法

(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. Release mechanism of the present document does not assume responsibility for the identification of 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 Hubei Exit Inspection and Quarantine.

1 Scope

This standard specifies a high performance liquid chromatographic method food simulants diphenyl carbonate.

This standard applies to water, 3% (mass concentration) solution of acetic acid, 10% (volume fraction) ethanol and other water-based food simulants 95% ethanol Determination of diphenyl carbonate aqueous solution and in olive oil.

Water-based food simulants and 95% (volume fraction) ethanol diphenyl carbonate lower limit of detection was 0.050mg/L, olive oil of diphenyl Determination of ester lower limit of 0.050mg/kg.

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.

GB/T 6682 analytical laboratory use specifications and test methods GB/T 23296.1-2009

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plastic food contact materials restricted substances in food and food simulants to specific substances in plastics Migration testing and determination of methods and conditions of exposure to food simulants Guide selection

3 Method summary

The resulting migration test food simulants direct injection, equipped with a UV detector using HPLC simulated liquid diphenyl carbonate We were separated and detected 32 min.

4 Reagents and materials

Unless otherwise specified, water GB/T 6682 provided a water, reagents were of analytical grade.

4.1
Standard diphenyl carbonate. 99%, respectively.

4.2
acetone.

4.3
acetonitrile. chromatography.

4.4
glacial acetic acid.

4.5
ethanol.

4.6
olive oil.

4.7
cyclohexane.

4.8
ethyl acetate.

4.9 95% (volume fraction) ethanol.

4.10 3% (mass concentration) acetic acid solution. Weigh 30g (accurate to 0.1g) in glacial acetic acid (4.4) in 1L volumetric flask, dilute to the mark with water Degree, shake.

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