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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3184-2012

Food contact materials. Polymers. Determination of bis (hydroxyphenyl) methane bis (2, 3-epoxyp ropyl) ethers in food simulants. Gas chromatography-mass spectrometry

食品接触材料 高分子材料 食品模拟物中双（羟苯基）甲烷-双（2，3-环氧丙基）醚的测定 气相色谱-质谱法

(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 Zhuhai Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the water, 3% (mass fraction) solution of acetic acid and 10% (volume fraction) ethanol and iso-octane solution of bis (hydroxyphenyl Yl) methane - Determination of bis (2,3-epoxypropyl) ether.

This standard applies to methane, bis (hydroxyphenyl) food simulants - bis (2,3-epoxy propyl) Determination of ether.

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 12808 Laboratory glassware single marking pipette GB/T 23296.1 plastic food contact materials in plastics restricted substances test substance specific migration into foods and food simulants Experience and determination method and conditions of exposure to food simulants Guide selection Principle 3 the water-based food simulants after HLB solid phase

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extraction (SPE), the eluent dried with nitrogen, dissolved in tetrahydrofuran and try using GC/MS Determination.

Isooctane mimetic dried with nitrogen by GC/MS determination after heavy dissolved in tetrahydrofuran.

4 Reagents and materials

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

4.1
acetic acid.

4.2
ethanol.

4.3
tetrahydrofuran. chromatography.

4.4
Methanol. chromatographically pure.

4.5 Mimetic

4.5.1
lipid-based food simulants. iso-octane.

4.5.2
Water-based food simulants. 3% (mass fraction) acetic acid solution. Weigh 30g (accurate to 0.1g) in glacial acetic acid (4.1) in 1L flask the water volume; 10% (by volume) ethanol. Measure 100mL anhydrous ethanol (4.2) in 1L flask, water volume.

4.6 pairs (hydroxyphenyl) methane - bis (2,3-epoxypropyl) ether (BFDGE) standard, CAS No. 2095-03-6, 98% purity. Standards of Structure Appendix A.

4.7 BFDGE standard stock solution (5mg/mL). Weigh accurately BFDGE standard amount, formulated as concentrated dissolved in tetrahydrofuran (4.3)

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