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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3549-2013

Food contact material. Polymers. Determination of epoxidised soybean oil in food simulants. Gas chromatography-mass spectrometry

食品接触材料 高分子材料 食品模拟物中环氧大豆油的测定 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 Guangdong Entry-Exit Inspection and Quarantine Changzhou People's Republic of China Bureau of Guangdong Pearl River Bridge Biotechnology Co., Ltd.

1 Scope

This standard defines four food simulants (water, 3% acetic acid, 10% ethanol and refined olive oil) in epoxy soybean oil content in gas chromatography Spectrum - mass spectrometry.

This standard applies to the determination of food simulants in contact with the food contact material in epoxy soybean oil 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.

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 Food simulants epoxy soybean oil (epoxidisedsoybeanoil; ESBO) extracted with ethyl acetate, the methyl ester and cyclopentanone After derivatisation by gas chromatography - in which the

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content of the largest derivatives thereof 18.2E of mass spectrometry (SIM mode), internal standard Statutory amount.

4 Reagents and materials

Unless otherwise specified, the reagents were of analytical grade, water is deionized water.

4.1
ESO. CAS No. 8013-07-8, purity greater than 99.7%, see Appendix A.

4.2
sodium chloride.

4.3
over anhydrous sodium sulfate.

4.4
sodium methoxide.

4.5
Disodium hydrogen citrate.

4.6 11,14- diepoxy ethyl eicosyl. C22H40O4, CAS number 355803-78-0, purity greater than 99.7%.

4.7
boron trifluoride etherate.

4.8
isooctane. chromatography.

4.9
cyclopentanone. chromatography.

4.10
ethyl acetate. chromatography.

4.11
Methanol. chromatographically pure.

4.12
acetic acid.

4.13
ethanol. chromatography.

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