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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3481.1-2013

Food contact materials-Polymer materials. Determination of hexabromocyclododecane. Part 1: LC-MS/MS method

食品接触材料 高分子材料 六溴环十二烷的测定 第1部分：液相色谱-质谱/质谱法

(English Translation)

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Foreword

This section SN/T Section 13481 of.

This section 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 section proposed and managed by the National Certification and Accreditation Administration Committee.

This section drafted by. China Inspection and Quarantine Science Research Institute.

1 Scope

This section SN/T 3481 provisions of the polymer material food contact materials Six HBCD (see Appendix A), liquid chromatography Spectrum - MS/MS detection method.

This section applies to polypropylene, polycarbonate food contact materials alpha- HBCD alkyl, beta- HBCD dioxane, gamma- hexabromocyclododecane Dodecane determination.

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 Principle 3 Sample Six HBCD ultrasonic extraction with acetone, and the extract after solid phase extraction (SPE), liquid chromatography - mass spectrometry/mass spectrometry Measurement method, external standard.

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4 Reagents and materials

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

4.1
dichloromethane.

4.2
n-hexane.

4.3
acetone.

4.4
Methanol. chromatographically pure.

4.5
acetonitrile. chromatography.

4.6
dichloromethane - hexane mixture. amount of methylene chloride and n-hexane 40mL 60mL, mix.

Dodecyl standard stock solution 4.7 alpha- hexabromocyclododecane. CAS No. 134237-50-6, purity greater than or equal to 99% at a concentration of 100μg/mL.

4.8
beta- sixty-two dioxane ring bromine standard stock solution. CAS No. 134237-51-7, purity greater than or equal to 99% at a concentration of 100μg/mL.

4.9
gamma- sixty-two dioxane ring bromine standard stock solution. CAS No. 134237-52-8, purity greater than or equal to 99% at a concentration of 100μg/mL.

4.10
preparation mixed standard stock solution. accurately measure were 100μg/mL of alpha-HBCD alkyl, beta- HBCD dioxane, gamma- hexa Cyclododecane standard stock solution of 0.5mL, transferred to a 10mL volumetric flask with methanol to volume, formulated as alpha- HBCD Alkyl, beta- HBCD dioxane, gamma- HBCD alkoxy each concentration 5μg/mL standard stock solution stored at -20 °C for.

4.11
SPE. matrix graphite carbon black/ethylene diamine -N- propyl group, 500mg/500mg, 6mL,

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or equivalent person. before use Sequentially with 10mL dichloromethane - hexane mixture (4.6), 10mL methylene chloride (4.1), 10mL of n-hexane (4.2) activation.

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