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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3481.2-2014

Food contact materials - Polymers - Determination of hexabromocyclododecane - Part 2: Gas chromatography-mass spectrometry

食品接触材料 高分子材料 六溴环十二烷的测定 第2部分：气相色谱-质谱法

(English Translation)

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Foreword

SN/T 3481 "food contact materials - Polymer six HBCD determination" is divided into two parts.

--- Part 1. liquid chromatography - mass spectrometry/mass spectrometry;

--- Part 2. Gas chromatography - mass spectrometry.

This section SN/T Section 23481 of.

This section drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some content of this document may involve patents, the issuing authority of this 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 part of the People's Republic of China Dongguan Comprehensive Inspection & Quarantine Technology Center and Guangdong CIQ Inspection and Quarantine Technology Center is responsible for drafting.

1 Scope

This section SN/T 3481 provides for food contact polymer materials Six HBCD (HBCD) gas chromatography mass spectrometry detection Measuring method.

This section applies to the determination of the content of dodecane food contact polymer materials hexabrominated ring.

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, undated references, the

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latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis Principle 3 Samples were extracted with hexane - acetone (11) extraction, purification by silica gel SPE cartridges, using a gas chromatograph mass spectrometer to detect the outer Standard method.

4 Reagents and materials

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

4.1
acetone. chromatography.

4.2
hexane. chromatographically pure.

4.3 N-hexane - acetone (11 volume fraction)

4.4 six HBCD standards. CAS No. 3194-55-6, molecular weight 642, purity not less than 97%.

4.5 standard stock solution. Weigh accurately six HBCD standards 25.0mg, dissolved in acetone and set the volume to 25.0mL, to obtain the concentration Were 1.0mg/mL of the standard stock solution.

4.6 six HBCD standard solution. Imbibe six HBCD standard stock solution 0.100mL, 0.200mL, 0.300mL, 0.400mL, 0.500mL, with acetone volume to 10mL, to give six HBCD concentration of 10.0μg/mL, 20.0μg/mL, 30.0μg/mL, 40.0μg/mL, 50.0μg/mL of standard working solution.

4.7 silica SPE columns. 500mg, 3mL, or rather who, prior to use 4mL ~ 5mL acetone on a silica gel SPE cartridge pre Rinse.

4.8 microporous membrane. 0.45μm, organic phase.

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