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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3654-2013

Food contact materials. Paper and regenerated fiber. Determination of total contant of distearyl dimethyl ammonium chloride, ditallow alkyl dimethyl ammonium chloride, and di(hydrogentated tallow)dimethyl ammonium chloride. Liquid chromatography-tandem ma

食品接触材料 纸、再生纤维材料 二硬脂基二甲基氯化胺、双(氢化牛油烷基)二甲基氯化铵、二(硬化牛油)二甲基氯化铵总量的测定 液相色谱-质谱/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 CIQ.

1 Scope

This standard specifies the paper or regenerated cellulose distearyl dimethyl ammonium chloride, bis (hydrogenated tallow alkyl) dimethyl ammonium chloride, di (hard Tallow) dimethyl ammonium chloride, the total amount of liquid chromatography - tandem mass spectrometry.

This standard applies to food contact paper or regenerated cellulose distearyl dimethyl ammonium chloride, bis (hydrogenated tallow alkyl) dimethyl Ammonium chloride, di (hardened tallow) dimethyl Determination of total chloride.

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

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3 Method summary

Paper or regenerated cellulose distearyl dimethyl ammonium chloride, bis (hydrogenated tallow alkyl) dimethyl ammonium chloride, di (hardened tallow) dimethyl Ammonium chloride (particular chemical composition comprises distearyl dimethyl ammonium chloride, dicetyl dimethyl ammonium chloride and cetyl stearyl Dimethyl ammonium chloride three kinds of substances) after 50% methanol extraction, liquid chromatography - mass spectrometry/mass spectrometry determination, external standard.

4 Reagents and materials

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

4.1
Methanol. chromatographically pure.

Acetate 4.2. HPLC grade.

4.3
distearyl dimethyl ammonium chloride (DSDMAC, CAS Registry Number. 107-64-2). standards, a purity of >=98%.

4.4 50% (by volume) methanol solution. methanol (4.1) and an equal volume of water according to a uniform ratio.

4.5 0.05% (volume fraction) acetic acid solution. accurate Pipette 0.50mL acetic acid (4.2) in 1L flask with water to volume.

4.6
distearyl dimethyl ammonium chloride (DSDMAC) standard solution. Weigh accurately a certain amount of DSDMAC standards (accurate to 0.1mg), was dissolved in methanol (4.1) and progressively diluting the concentration of 0.02mg/L, 0.05mg/L, 0.1mg/L, 0.2mg/L, 0.5mg/L, 1.0mg/L of standard working solution.

4.7
microporous membrane. an aqueous phase, 0.22μm.

NOTE: DSDMAC standards usually consists of carbon chain length of a mixture of alkyl dimethyl ammonium chloride and cetyl eighteen composition, i.e. containing both dioctadecyl dimethyl Ammonium chloride, dicetyl dimethyl ammonium chloride, and stearyl dimethyl cetyl ammonium chloride three kinds of substances.

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