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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 3694.13-2013

**Determination of perfluorinated alkyl compounds in industrial
products for import and export. Part 13: Food contact
materials-LC-MS/MS method
(English Translation)**

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Foreword

SN/T 3694 "Importers perfluoroalkyl compounds in industrial measurement" is divided into 14 parts.

- Part 1. Cosmetic liquid chromatography - tandem mass spectrometry;
- Part 2. extinguishant liquid chromatography - tandem mass spectrometry;
- Part 3. Lubrication liquid chromatography - tandem mass spectrometry;
- Part 4. Paraffin liquid chromatography - tandem mass spectrometry;
- Part 5. detergent liquid chromatography - tandem mass spectrometry;
- Part 6. Ink liquid chromatography - tandem mass spectrometry;
- Part 7. paint and coatings liquid chromatography - tandem mass spectrometry;
- Part 8. Electronic and Electrical Products liquid chromatography - tandem mass spectrometry;
- Part 9. Textiles liquid chromatography - tandem mass spectrometry;
- Part 10. Adhesive liquid chromatography - tandem mass spectrometry;
- Part 11. Leather liquid chromatography - tandem mass spectrometry;
- Part 12. polish liquid chromatography - tandem mass spectrometry;
- Part 13. Food contact materials by liquid chromatography - tandem mass spectrometry;
- Part 14. plastic liquid chromatography - tandem mass spectrometry.

This section SN/T Part of 133,694.

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. People's Republic of China Zhejiang Exit Inspection and Quarantine, Jilin People's Republic of China Entry-Exit Inspection and Quarantine Bureau.

1 Scope

SN/T 3694 provisions of this part of the food contact materials in liquid chromatography perfluoroalkyl compounds - tandem mass spectrometry.

This section applies to disposable cups, plastic wrap, non-stick coating of perfluorinated acid, PFOA, perfluorooctanoic azelaic acid, perfluoro decanoic acid, perfluoro ten an acid, perfluorinated lauric acid, perfluorobutane sulfonic acid, perfluorohexane sulfonate, PFOS, perfluorinated sulfonic acid decane 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

3 Method summary

Extracted with methanol by ultrasonic sample of the target compound, liquid chromatography - tandem mass spectrometer, external standard.

4 Reagents and materials

Unless otherwise specified, the reagents were of analytical grade, in line with the water and a water GB/T 6682 regulations.

4.1

methanol. liquid chromatography.

4.2

ammonium acetate. pure class distinctions.

4.3

ammonium acetate solution. 0.005mol/L. Weigh 0.385g ammonium acetate (4.2), dissolved in water and dilute to 1000mL, shake, too 0.22 μ m filter.

4.4

perfluorinated acid, PFOA, perfluorooctanoic azelaic acid, perfluoro decanoic acid, perfluorinated undecanoic acid, perfluorinated lauric acid, potassium perfluorobutane sulfonate, perfluorohexane sulfonate Sodium, perfluoro octane sulfonate, sodium decane perfluoro standard substance. 98% or greater purity. Standards For more information, see Appendix A

Table A.1.

4.5

standard stock solution. accurately weighed amount of perfluorinated compounds standard substance (4.4), dissolved in methanol, fixed volume, were prepared at a concentration of Standard stock solution 50mg/L, the concentration of the acid radical to count.

4.6

mixed standard working solution. if necessary, the standard stock solution in methanol (4.5) diluted to the appropriate concentration of working standard Solution.

4.7

The organic phase filter. 0.22 μ m, with methanol before use ultrasound.

5 Apparatus

5.1

Liquid chromatography - tandem mass spectrometry. equipped with electrospray ionization source.