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

SN/T 3694.11-2013

**Determination of perfluorinated alkyl compounds in industrial
products for import and export. Part 11: Leather-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 113,694.

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 This section provides liquid chromatography leather perfluoroalkyl compounds - tandem mass spectrometry.

This section applies to leather perfluorinated acid, PFOA, perfluorooctanoic azelaic acid, perfluoro decanoic acid, perfluorinated undecanoic acid, lauric acid perfluorinated, 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

Methanol as solvent extraction, a sample of the target compound was extracted with accelerated solvent extraction. The extract was mixed too weak anion exchanger After the solid-phase extraction (SPE), 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 Diatomaceous earth. 1)

1) DionexP/N062819 are examples of suitable commercially available products. This information is given for the convenience of users of this standard, this does not mean that production Approved products.

4.3 ammonium acetate. pure class distinctions.

4.4 Ammonia. 25% to 28%.

4.5 with sodium acetate trihydrate ($\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$).

4.6 0.1% methanol solution of ammonia. Take 0.1mL aqueous ammonia (4.4), diluted with methanol and set the volume to 100mL, shake.

4.7 sodium acetate solution. 0.025mol/L. Weigh 0.171g sodium acetate trihydrate (4.5), dissolved in water and dilute to 50mL, shake.

4.8 ammonium acetate solution. 0.005mol/L. Weigh 0.385g ammonium acetate (4.3), dissolved in water and dilute to 1000mL, shake, too 0.22 μm filter.

4.9 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.

4.10 standard stock solution. accurately weighed amount of perfluorinated compounds standard substance (4.9), dissolved in methanol, fixed volume, were prepared at a concentration of