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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3617-2013

Determination of linear alkylbenzene sulfonate in leather

皮革中直链烷基苯磺酸盐的测定

(English Translation)

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Foreword

This standard was drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20001.4-2001 given.

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

This standard was drafted. Chongqing, People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the leather linear alkyl benzene sulfonate (LAS) by high performance liquid chromatography and liquid chromatography - mass spectrometry/mass spectrometry methods.

This standard applies to the determination of leather linear alkyl benzene sulfonate (LAS) and confirmed.

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

Sample linear alkyl benzene sulfonate with methanol ultrasonic extraction by neutral alumina solid phase extraction (SPE), measured by HPLC Fixed, liquid chromatography -

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mass spectrometry/mass spectrometry (LC-MS/MS) and confirmed, external standard.

4 Reagent material

Unless otherwise indicated, the reagents used were of analytical grade water as a water GB/T 6682 regulations. The method uses the reagent material as follows.

4.1
Methanol. chromatographically pure.

4.2
dichloromethane. chromatography.

4.3
ammonium acetate.

4.4
ammonia, NH3 content of 25%.

4.5 10mmol/L ammonium acetate solution. Weigh 0.770g ammonium acetate (4.3), dissolved in water and dilute to 1000mL.

4.6 5mmol/L ammonium acetate solution. Weigh 0.385g ammonium acetate (4.3), dissolved in water and dilute to 1000mL.

4.7 5% ammoniated methanol. Take 5mL ammonia (4.4) with methanol (4.1) and dilute to 100mL.

Sodium dodecylbenzenesulfonate 4.8 Standard Substance. CAS No. 25155-30-0, purity of greater than or equal to 80%, of C10 ~ C13 straight chain alkyl group, etc.

A mixture of benzene sulfonate.

4.9
Sodium dodecylbenzenesulfonate standard stock solution. accurately weighed amount (actual content conversion) of sodium dodecylbenzenesulfonate Standards (4.8) with methanol (4.1) formulated at a concentration of 1000mg/L of standard stock solution.

4.10
sodium dodecylbenzenesulfonate standard working solution. Imbibe standard stock solution (4.9), stepwise diluted with methanol (4.1) to prepare a series Suitable concentrations of standard working solution.

4.11
neutral alumina SPE. 1g, 6mL, or equivalent person.

4.12 0.45μm polypropylene membrane.

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5 Instruments and equipment

5.1

High performance liquid chromatograph. with diode array detector.

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