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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3123-2012

Determination of musk xylene in detergent products. Gas chromatography-tandem mass spectrometry

洗涤用品中二甲苯麝香的测定 气相色谱-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. Distribution of this document Institutions do not assume the responsibility to identify these patents.

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

This standard was drafted. China Inspection and Quarantine Science Research Institute, People's Republic of China Shanghai Exit Inspection and Quarantine.

1 Scope

This standard specifies the detergent musk xylene gas chromatography - mass spectrometry/mass spectrometry.

This standard applies to the determination of Detergents in musk xylene, lower limit of detection was 0.05mg/kg.

2 Method summary

Detergent extraction of musk xylene with acetone, and the extract after solid phase extraction (SPE), gas chromatography - mass spectrometry/mass spectrometry more trans should be monitored ion mode (MRM) were measured using deuterated d15- musk xylene as internal standard, internal standard.

3 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade.

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3.1
dichloromethane. chromatography.

3.2
acetone. chromatography.

3.3
hexane. chromatographically pure.

3.4
Musk xylene Standard Substance. CAS No. 81-15-2, 99.5% purity.

3.5
deuterated d15- musk xylene internal standard substance. 97.5% purity.

3.6
Musk xylene standard stock solution (100mg/L). accurately weighed amount of musk xylene standards in 100mL volumetric flask Hexane preparation of a concentration of 100mg/L of standard stock solution. Stock solution at 4 °C preservation, valid for three months.

3.7
deuterated d15- musk xylene internal standard stock solution (10mg/L). Weigh accurately the right amount of deuterated standards for musk xylene d15-10mL volumetric flask with n-hexane formulated into standard stock solution at a concentration of 10mg/L of. Stock solution at 4 °C preservation, valid 3 months.

3.8
SPE. Sep-PakSilica, 500mg, 6mL, or equivalent person. Before use, respectively 5mL methanol and 5mL dichloromethane Alkoxy pretreatment, the column and kept moist.

4 Instruments and equipment

4.1
Gas chromatography - tandem quadrupole mass spectrometer. with a chemical ionization source.

4.2
Analysis of balance. a sense of the amount of 0.1mg and 0.001g.

4.3
Solid phase extraction vacuum apparatus.

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4.4
Vortex.

4.5
meter dry nitrogen.

4.6
filter. 0.45μm, organic phase.

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