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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3226-2012

Determination of paraben esters preservatives in textiles and leather

纺织品与皮革制品中尼泊金酯类防腐剂的测定

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

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

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

1 Scope

This standard specifies the textile and leather products 7 kinds of parabens preservatives (see Appendix A), high performance liquid chromatography (HPLC) and Liquid chromatography - tandem mass spectrometry (LC-MS/MS) measurement method.

This standard applies to textiles and leather products 7 kinds of measurement parabens preservatives.

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 GB/T 8170 repair value expressed about the rules and limit values and judgment Principle 3 Textile samples were methanol ultrasonic extraction using HPLC or LC-MS/MS for qualitative and quantitative determination; leather sample methanol ultrasound Extraction, and then after purification by gel permeation chromatography using HPLC or LC-MS/MS for qualitative and quantitative determination of external standard.

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4 Reagents and materials

Unless otherwise specified, the reagents were HPLC grade water line with a chromatographic water GB/T 6682 regulations.

4.1
methanol.

4.2
methanol-water (11 volume) solution. amount of 125mL of methanol (4.1) in 250mL flask with water to volume.

4.3
ethyl acetate.

4.4
cyclohexane.

4.5
cyclohexane-ethyl acetate (11 volume) solution. Measure 1000mL of ethyl acetate (4.3) in 2000mL volumetric flask Cyclohexane to volume.

4.6
filler polystyrene gel (Bio-BeadsS-X3,200-400 mesh).

4.7
Standard substance. methyl paraben (80% purity), ethyl paraben (97.5% purity), propyl paraben (100% purity), paraben Isopropyl (100% purity), Butylparaben (100% purity), paraben, isobutyl acetate (99% purity), paraben heptyl ester (100% purity).

4.8
stock standard solution. 4.7 Standard substances listed were prepared in methanol at a concentration of one-component 1000mg/L of paraben Standard stock solution compounds.

4.9
standard working solution. seven kinds of stock solution parabens Pipette the appropriate amount of each compound into the same flask with methanol to

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