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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3227-2012

Determination of nine carcinogenic dyestuffs in textiles in textiles for import and export. LC-MS/MS method

进出口纺织品中9种致癌染料的测定 液相色谱-串联质谱法

(English Translation)

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Preview: page 1 of 3 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3227-2012

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Table of Contents

Foreword

1 Scope

2 Normative references

4 Reagents and materials

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 Beijing Entry-Exit Inspection and Quarantine Bureau, People's Republic of China Zhejiang Entry-Exit Inspection and Quarantine Bureau, Intertek Testing Services Limited Shanghai, People's Republic of China Entry-Exit Inspection and Quarantine Bureau, Wenzhou, Waters Corporation, People's Republic of Ningbo Entry-Exit Inspection and Quarantine Putian People's Republic of China, People's Republic of China Henan Entry-Exit Inspection Inspection and quarantine bureau.

1 Scope

This standard specifies the use of liquid chromatography - tandem mass spectrometry (LC-MS/MS) textile products in nine carcinogenic dyes (see Appendix A), method.

This standard applies to the determination by the printing and dyeing of textile products in nine carcinogenic dyes.

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 Principle 3 After the samples were extracted with methanol by liquid chromatography - tandem mass spectrometry to extract nine carcinogenic dyes were determined by external standard method Quantified.

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4 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade. Water as a water GB/T 6682 regulations.

4.1
Methanol. chromatographically pure.

Ammonium acetate 4.2. HPLC grade.

4.3
acetonitrile. chromatography.

4.4
aqueous ammonium acetate solution (10mmol/L). Accurately weigh 0.385g ammonium acetate (4.2) dissolved in water, transferred to a 500mL volumetric flask, Volume with water.

4.5
methanol - water (11 volume). amount of 125mL of methanol (4.1) in 250mL flask with water to volume, and mix.

Nine carcinogenic dyes 4.6 Standard. See Appendix A.

4.7
standard stock solution (about 100mg/L). accurately weighed amount set out in Appendix A of the standard nine carcinogenic dyes with methanol (4.1) will the effective concentration of each substance is configured to about 100mg/L of standard stock solution.

NOTE: In the refrigerator at 4 °C under dark storage conditions, valid standard stock solution is 12 months.

4.8
mixed standard working solution (1mg/L). accurate Pipette appropriate amount of standard stock solution (4.7) with methanol - formulated as a concentrated aqueous solution (4.5) Degree of 1mg/L of mixed standard working solution, or be formulated as other standard working solution concentration desired.

NOTE: In the refrigerator at 4 °C under dark storage conditions, valid for the mixed working solution for one month.

Preview: page 3 of 3 shown, 8 in the full document. Complete English PDF, instant download:
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