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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3119-2012

Determination of distearyl dimethyl ammonium chloride in dyeing and finishing textile agents. LC-MS/MS

染整助剂中二硬脂基二甲基氯化铵的测定 液相色谱-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.

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

This standard was drafted. People's Republic of China Guangdong CIQ.

1 Scope

This standard specifies the dyeing and finishing auxiliaries distearyl dimethyl ammonium chloride (DSDMAC) liquid chromatography - tandem mass spectrometry.

This standard applies to the determination of the dyeing and finishing auxiliaries distearyl dimethyl ammonium chloride in.

NOTE: DSDMAC typically having a carbon chain length of sixteen and eighteen of the mixture of alkyl dimethyl ammonium chloride, i.e., containing dioctadecyl dimethyl ammonium chloride, Dicetyl dimethyl ammonium chloride, and stearyl dimethyl cetyl ammonium chloride.

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

In dyeing and finishing auxiliaries distearyl dimethyl ammonium chloride, dicetyl dimethyl ammonium chloride and cetyl stearyl dimethyl chloro Ammonium target analytes, the

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sample after the methanol extract by liquid chromatography - tandem mass spectrometer measurement, external standard.

4 Reagents and materials

Unless otherwise indicated, all reagents were of analytical grade water as a water line with GB/T 6682 regulations.

4.1
Methanol. chromatographically pure.

4.2
DSDMAC. purity of greater than 99%, CAS Number. 107-64-2.

4.3
acetic acid.

4.4 0.05% acetic acid solution. accurate Pipette 0.5mL of acetic acid (4.3) in 1L flask with water to volume.

4.5
DSDMAC standard stock solution. accurately weighed 100mg (accurate to 0.1mg) DSDMAC (4.2) in the 200mL beaker, with methanol (4.1) dissolved quantitatively transferred to a 100 mL volumetric flask with methanol (4.1) to the mark, the concentration of the solution to 1000mg/L.

4.6
DSDMAC standard solution. accurate Pipette DSDMAC standard stock solution (4.1) stepwise diluted with methanol to prepare a concentration it was 0.02mg/L, 0.05mg/L, 0.1mg/L, 0.2mg/L, 0.5mg/L, 1.0mg/L of standard solution.

4.7
filter. 0.22μm, organic phase.

5 Apparatus

5.1
Liquid chromatography - tandem quadrupole mass spectrometry (LC-MS/MS) instrument. with electrospray ionization (ESI).

5.2
ultrasonic water bath.

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5.3

Analysis of balance. a sense of the amount of 0.1mg.

5.4

conical flask. 100mL, with stopper.

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