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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3897-2014

Determination of tetracycline antibiotics in cosmetics

化妆品中四环素类抗生素的测定

(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. People's Republic of China Zhejiang Exit Inspection and Quarantine.

1 Scope

This standard specifies the cosmetics minocycline, oxytetracycline, tetracycline, demeclocycline, chlortetracycline, oxytetracycline armor, strong mildew Su, tetracycline difference to dehydration, nine tetracycline tetracyclines measured by high performance liquid chromatography (HPLC) and liquid chromatography - mass / Mass Spectrometry (LC-MS/MS) detection.

This standard applies to the determination of toner, lotion, mask, soap, facial cleanser, acne cream of 9 tetracycline antibiotics.

The standard liquid chromatography - mass spectrometry/mass spectrometry for the arbitration law.

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 the first method HPLC

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3 Method summary

Methanol - liquid chromatograph oxalic acid solution as solvent, ultrasonic extraction, centrifugation, filtration, equipped with a diode array detector and external standard Statutory amount.

4 Reagents and materials

Unless otherwise specified, the reagents were of analytical grade, the water is a water line with GB/T 6682 regulations.

4.1
acetonitrile. liquid chromatography.

4.2
methanol. liquid chromatography.

4.3
oxalic acid. pure class distinctions.

4.4
formic acid. liquid chromatography.

4.5
ammonia.

4.6
phosphoric acid. pure class distinctions.

4.7 0.2% phosphoric acid solution. Pipette 2.0mL phosphoric acid (4.6), water volume to 1000mL.

4.8 0.02mol/L oxalic acid solution. Weigh 0.90g oxalic acid (4.3), dissolved in water and dilute to 500mL.

4.9
Methanol - oxalic acid solution (11 volume). Measure 500mL of methanol (4.2) and 500mL solution of oxalic acid (4.8) were mixed.

4.10
minocycline, oxytetracycline, tetracycline, demeclocycline, chlortetracycline, methylene oxytetracycline, doxycycline, tetracycline difference to dehydration, de Water tetracycline standards. purity of greater than or equal to 90%, see appendix A in Table A.1.

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4.11

standard stock solution. the right amount of conversion were referred learn standard (4.10) were dissolved in methanol and set the volume, the solution concentration 200μg/mL, the standard stock solution stored below -18 °C, valid for six months.

4.12

intermediate mixed standard solution. accurate Pipette 5.0mL respectively minocycline, oxytetracycline, tetracycline, demeclocycline, chlortetracycline,

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