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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3821-2014

Determination of hexavalent chromium in cosmetics for export - Liquid chromatography-inductively coupled plasma mass spectrometry

出口化妆品中六价铬的测定 液相色谱-电感耦合等离子体质谱法

(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 is mainly drafted by. People's Republic of China Hubei Exit Inspection and Quarantine.

1 Scope

This standard specifies the export of hexavalent chromium in cosmetics by liquid chromatography - inductively coupled plasma mass spectrometry.

This standard applies to loose, silty blush, powder, bath powder, eye shadow, powder Determination of hexavalent chromium.

2 Normative references

The following documents for the application of this standard 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

Hexavalent chromium specimen using sodium hydroxide solution and extracted by liquid chromatography - inductively coupled plasma mass spectrometer measurement, external standard method Quantified.

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4 Reagents and materials

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

4.1
tetrabutyl ammonium hydrogen sulfate.

4.2
ammonia. pure class distinctions.

4.3
Nitric acid. pure class distinctions.

4.4
Magnesium chloride hexahydrate.

4.5
sodium hydroxide.

4.6
dipotassium hydrogen.

4.7
potassium dihydrogen phosphate.

4.8
Methanol. HPLC grade.

4.9
extract (0.05mol/L sodium hydroxide solution). Weigh 2.0g of sodium hydroxide (4.5) dissolved in water, water volume to 1000mL, Mix well and set aside.

4.10
phosphate buffer solution. dipotassium hydrogen 8.71g (4.6) and 6.80g of potassium dihydrogen phosphate (4.7) was dissolved in water, dilute to 100mL, and mix.

Mobile phase 4.11 (2mmol/L tetrabutyl ammonium bisulfate solution, 5% methanol, pH = 4.0). Weigh 0.68g of tetrabutyl ammonium hydrogen sulfate (4.1), dissolved in water, was added 50mL of methanol (4.8), set the volume to nearly 1000mL, adjusted with ammonia (4.2) pH to 4.0, water volume to 1000mL. Prior to use, too 0.45μm filter, and ultrasonic treatment 10min.

4.12 2% nitric acid solution. lessons 2mL nitric acid (4.3) in 100mL flask with water to volume.

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4.13

hexavalent chromium standard solution. GB W (E) 080257, the standard value of 100μg/mL, or equivalent person.

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