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ICS 71.100.70
CCS Y42

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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3826-2014

Determination of boric acid and borates in cosmetics for import-export - ICP-OES method

进出口化妆品中硼酸和硼酸盐含量的测定 电感耦合等离子体原子发射光谱法

(English Translation)

Issued on: January 13, 2014 **Implemented on: August 1, 2014**

Issued by: General Administration of Customs

Preview: page 1 of 4 shown, 6 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword
1 Scope
2 Normative references
3 Method summary
4 Reagents and materials
5 Apparatus

Foreword

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

Please note that some content of this document may involve patents, publication 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, Zhejiang Inspection and Quarantine Institute of Science and Technology.

1 Scope

This standard specifies the import and export cosmetics boric acid and borate content by inductively coupled plasma emission spectrometry method.

This standard applies to the determination of import and export cosmetics boron content as boric acid or borate results count.

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 SN/T 2192 Importers and cosmetic laboratory chemical analysis sample preparation Specification

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3 Method summary

After the sample digestion, measured spectral intensity in the corresponding element ICP-OES wavelength, using the standard curve internal standard.

4 Reagents and materials

Unless otherwise specified, all reagents superior grade pure water was used a water line with GB/T 6682 stipulated.

Nitrate 4.1 (MOS level, 65%).

4.2
Hydrogen peroxide (30% aqueous solution).

4.3
nitric acid solution (595). Measure 50mL of nitric acid (4.1) slowly added to 950mL of water.

4.4
boron standard stock solution (1000μg/mL). direct use element standard solution standard material certificates are valid within the standard concentration of 1000μg/mL.

4.5
yttrium standard stock solution (100μg/mL). As ICP-OES detection of an internal standard, the direct use of reference material certificates valid Element standard solution, standard solution concentration period of 100μg/mL.

4.6
boron standard solution (10μg/mL). Imbibe 1.0mL boron standard stock solution (4.4) to 100mL volumetric flask, with nitrate Acid solution (4.3) diluted to volume.

The preparation of the solution should be promptly transferred to a plastic bottle (Do not use glass products, to avoid contamination) and stored at 0 °C ~ 5 °C refrigerator, effective Period of one month.

4.7
Argon. purity of greater than or equal to 99.99%.

5 Apparatus

5.1
Inductively coupled plasma atomic emission spectrometer.

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5.2

Analysis of balance. a sense of the amount of 1mg.

5.3

microwave digestion system. Containers used are plastic containers, all containers shall be subject to a 20% nitric acid soak overnight.

Preview: page 4 of 4 shown, 6 in the full document. Complete English PDF, instant download:
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