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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 3822-2014

Determination of bisphenol A in cosmetics for export Liquid chromatography with fluorescence detection

出口化妆品中双酚A的测定 液相色谱荧光检测法

(English Translation)

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

Issued by: General Administration of Customs

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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 Shaanxi Exit Inspection and Quarantine.

1 Scope

This standard specifies the method of liquid chromatography with fluorescence detection of bisphenol A in cosmetics.

This standard applies to shampoo, moisturizing cream, hand cream, Determination A toner, essential oils, talcum powder and other cosmetics bisphenol.

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

After the samples were extracted with acetonitrile, the amino solid phase extraction (SPE), detected by liquid chromatography with fluorescence detection, external standard.

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4 Reagents and materials

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

4.1
acetonitrile. chromatography.

4.2
dichloromethane. chromatography.

4.3
sodium chloride.

4.4
acetic acid.

4.5
anhydrous sodium. 650 °C burning 4h, stored in a sealed container in the back.

4.6
sodium chloride solution. Take about 200g of sodium chloride was added 500mL of water, ultrasonic 30min, the supernatant spare.

4.7
acetic acid solution (0.1%). 1mL of acetic acid was added to 999mL water, mix well.

4.8
acetonitrile - acetic acid solution (6535, volume ratio). Take 650mL 350mL acetic acid and acetonitrile (4.7) and mix.

4.9
Bisphenol A standard substance (BisphenolA, C15H16O2, CAS. 80-05-7). not less than 99% purity.

4.10
Bisphenol A standard stock solution. accurately weighed amount of reference material bisphenol A with acetonitrile made 1000μg/mL standard stock Solution, 0 °C ~ 4 °C, valid for six months.

4.11
Bisphenol A standard solution. when measured in accordance with acetonitrile need progressively diluting the standard working solution of appropriate concentration.

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4.12
amino SPE. 500mg, 3mL, or equivalent person. Activated before use with 5mL of dichloromethane, kept moist cylinder.

4.13
microporous membrane. 0.2μm, organic.

5 Apparatus

5.1
liquid chromatograph. equipped with fluorescence detector.

5.2
Analysis of balance. a sense of the amount of 0.01mg, 0.01g.

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