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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3608-2013

Determination of fluorine in import and export cosmetics. Ion chromatographic method

进出口化妆品中氟的测定 离子色谱法

(English Translation)

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Foreword

Accordance with the standards GB/T 1.1-2009, rules GB/T 20001.4-2001 given draft.

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

This standard was drafted. Inner Mongolia, People's Republic of China Exit Inspection and Quarantine.

1 Scope

This method specifies ion chromatographic method of fluorine in the import and export of cosmetics.

This method is applicable to toothpaste, mouthwash, teeth whitener, breath fresheners determination of fluorine in cosmetics.

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

With a base fixed sample of fluorine, high temperature ashing to remove organic impurities in the sample is converted to form a fluorine salt, in neutral or slightly alkaline Under the conditions, ion exchange chromatography - conductivity detector measurement, external standard.

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4 Reagents and materials

Unless otherwise indicated, all reagents were of analytical grade, to comply with a test water or conductivity water GB/T 6682 requirements to achieve 18.2Mohm. cm of ultra-pure water.

4.1
potassium hydroxide (KOH). excellent pure, crushed before use.

4.2
Sodium carbonate (Na2CO3).

4.3
sodium bicarbonate (NaHCO3).

4.4
sodium carbonate solution (0.5mol/L). take 53.0g sodium carbonate (4.2) dissolved in water volume to 1L.

4.5
sodium bicarbonate solution (0.5mol/L). take 42.0g sodium bicarbonate (4.3) dissolved in water volume to 1L.

4.6 1.0mmol/L and 1.0mmol L sodium bicarbonate, sodium carbonate mixed solution /. Take 0.5mol/L sodium carbonate (4.4) 2mL and 0.5mol/L sodium bicarbonate (4.5) 2mL in 1000mL volumetric flask with water to volume, and mix.

4.7 3% sulfuric acid solution. Measure 30mL of concentrated sulfuric acid slowly into 1000mL water, cooling and shake.

4.8
sodium fluoride (NaF). above 99%.

4.9
fluoro standard stock solution (1000mg/L). Weigh accurately 0.2210g by 100 °C ± 5 °C drying 4h cooled to room temperature, sodium fluoride (4.8), was dissolved in water and transferred to 100mL volumetric flask, add water to volume, and mix. Storing high-density polyethylene bottles 4 °C to save, or use Traceable standard stock solution.

4.10
fluoro standard solution (100mg/L). lessons 10.00mL fluoro standard stock solution (4.9) into 100mL volumetric flask, add water to Volume, and mix.

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4.11

fluoro standard working solution. using the serial dilution method to draw fluoro standard solution (4.10), respectively, according to the content of the sample can be dubbed 1.0mg/L, 2.0mg/L, 5.0mg/L, 8.0mg/L, 10.0mg/L, 20.0mg/L to any one (s) suitable concentration range of the standard curve.

4.12

AnpelcleanTMIC-H cation exchange column or an equivalent person. 1mL, column capacity of 2.0mmol. Continued 3mL injection before use Device with 10mL water to pH 5-6. Of used H-type cation exchange column can be reused, but must be cleaned and transformed into

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