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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3609-2013

Determination of imperatorin and isoimperatorin in cosmetics for import and export. LC/MS/MS Method

进出口化妆品中欧前胡素和异欧前胡素的测定 液相色谱-质谱/质谱法

(English Translation)

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Preview: page 1 of 4 shown, 7 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

Foreword

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

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

This standard was drafted. People's Republic of China Guangdong CIQ.

1 Scope

This standard specifies the import and export of cosmetics Imperatorin and isoimperatorin liquid chromatography - mass spectrometry/mass spectrometry and confirmation methods.

This standard applies to the determination of cosmetics Imperatorin Imperatorin content and different.

Determination Imperatorin isoimperatorin and lower limits were 0.5mg/kg.

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

Sample Imperatorin and isoimperatorin methanol extract, -18 °C freezing purification, the supernatant was diluted liquid chromatography - mass spectrometry /Mass spectrometry, external standard.

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4 Reagents and materials

Except where noted, all reagents were HPLC grade water to comply with a water GB/T 6682 regulations.

4.1
methanol.

Ammonium acetate 4.2. AR.

4.3
Imperatorin and isoimperatorin Standard.

--- Imperatorin (imperatorin). CAS Number. 482-44-0, molecular weight. 270.28, molecular formula. C16H14O4, pure Degree. 98%.

--- Isoimperatorin (isoimperatorin). CAS Number. 482-45-1, molecular weight. 270.29, molecular formula. C16H14O4, pure Degree. 98%.

4.4
ammonium acetate solution (1mol/L). Weigh 77.08g acetic acid, ammonia, water volume to 1000mL.

4.5
methanol 10mmol ammonium acetate. 1L of methanol was added 10mL1mol/L acetic acid aqueous ammonia solution.

4.6
ammonium acetate solution (5mmol/L). Weigh 0.3854g ammonium acetate, water volume to 1000mL.

4.7
Methanol - water (80 20, by volume). amount of 80mL methanol, 20mL of water was added, mixing spare.

4.8
standard stock solution. Weigh accurately take the right amount of each Imperatorin and isoimperatorin reference material, were prepared with a concentration of methanol Standard stock solution 1000μg/mL, and dark storage at -18 °C storage period of 1 year.

4.9
intermediate standard solution. Pipette Imperatorin and isoimperatorin stock solution of 1.0mL, placed in 100mL volumetric flask 100mL methanol to give a concentration of 10.0μg/mL of mixed standard intermediate solution, at -18 °C dark storage, shelf life of 1 year.

Preview: page 3 of 4 shown, 7 in the full document. Complete English PDF, instant download:
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4.10

standard working solution. a standard intermediate solution (4.9) as a standard working solution by diluting with methanol concentration 0.25ng/mL ~ Within 20ng/mL range, now with the current.

Preview: page 4 of 4 shown, 7 in the full document. Complete English PDF, instant download:
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