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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3866-2014

Determination of phenolphthalein and emodin in health food for export. LC-MS/MS method

出口保健食品中酚酞和大黄素的测定 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
5 Apparatus

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. China Inspection and Quarantine Science Research Institute, Heilongjiang People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the export of health food in phenolphthalein and emodin liquid chromatography tandem mass spectrometry.

This standard applies to weight loss tablets, slimming capsule, weight loss powders, diet cookies, oral solution to lose weight, slimming coffee and slimming tea phenolphthalein Emodin and the detection and confirmation.

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

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3 Method summary

The sample was extracted with methanol, - aqueous ammonium acetate dilution; slimming oral solution samples were methanol - aqueous ammonium acetate directly Diluted with with electrospray ionization liquid chromatography - determination, external standard MS/MS.

4 Reagents and materials

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

4.1
Methanol. chromatographically pure.

4.2
ammonium acetate. pure class distinctions.

4.3 10mmol/L ammonium acetate solution. Weigh 0.771g of ammonium acetate (4.2), dissolved in deionised water and diluted to 1000mL.

4.4
Standard. phenolphthalein (phenolphthalein), CAS No. 77-09-8, molecular formula C20H14O4, a purity of greater than or equal to 97%; emodin (Emodin), CAS No. 518-82-1, molecular formula C15H10O5, a purity of greater than or equal to 97%.

4.5
standard stock solution. Weigh 0.01g (accurate to 0.0001g) standard product, emodin with a small amount of acetone dissolved with methanol Volume to 100mL, phenolphthalein dissolved in methanol and set the volume to 100mL. The standard stock solution was placed in -18 °C preservation, valid for three months.

4.6
intermediate mixed standard solution. Pipette the appropriate amount of phenolphthalein and emodin standard solution in 100mL flask, constant volume with methanol to the mark, dubbed emodin and phenolphthalein concentrations 1000ng/mL mixed standard and 100ng/mL intermediate solution. Paul at 4 °C Deposit, valid for 1 week.

4.7
mixed standard working solution. phase [7.2.1b)] mixing the intermediate standard solution (4.6) progressively diluted as required with initial liquidity ratio Mixing the appropriate concentration of the working standard solution, require using now.

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4.8

The organic phase membrane. pore size 0.22μm.

5 Apparatus

5.1

High performance liquid chromatography - mass spectrometry/mass spectrometer. with electrospray ionization source.

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