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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3867-2014

Determination of rimonabant in heatlh food for export. LC-MS/MS method

出口保健食品中利莫那班的测定 液相色谱-质谱/质谱法

(English Translation)

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

1 Scope

This standard provides the food for export rimonabant 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 Limone the detection and confirmation classes.

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

Mix with the pulverized sample extracted with methanol with 0.1% formic acid - methanol mixture was diluted solid phase extraction (SPE); slimming oral solution Liquid sample was

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0.1% formic acid - methanol direct dilution, solid-phase extraction (SPE) with with electrospray ionization liquid chromatography - mass spectrometry/mass spectrometry Determination, external standard.

4 Reagents and materials

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

4.1
Methanol. HPLC fractions.

4.2
formic acid. 99%, HPLC fractions.

4.3
ammonia. pure class distinctions.

4.4
ammonium acetate. pure class distinctions.

4.5 10mmol/L ammonium acetate solution. Weigh 0.771g ammonium acetate (4.4), ultrapure water dissolved and diluted to 1000mL.

4.6 0.1% 2.0% formic acid solution. respectively Pipette 0.1mL, 2.0mL of formic acid (4.2), dilute to volume with ultrapure water to 100mL.

4.7 0.1% formic acid - methanol mixture. (82, volume ratio).

4.8 5% ammoniated methanol. amount of 5mL ammonia (4.3) and 95mL of methanol (4.1) and mixed.

Rimonabant 4.9 standard (rimonabant, CAS number. 168273-06-1, molecular formula. C22H21Cl3N4O). 97% or greater purity.

4.10
standard stock solution. accurately weighed 0.01g (accurate to 0.0001g) of rimonabant standard (4.9) with methanol (4.1) dubbed concentrated Degree of 100.0mg/L standard stock solution of the standard stock solution was placed in -18 °C preservation, valid for three months.

4.11
standard solution. methanol standard stock solution (4.10) as required by serial dilution into standard working solution of appropriate concentration, standard Quasi working solution required for immediate use.

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4.12

SPE. MCX solid phase extraction column, 500mg, 6mL, or equivalent person. Before use 5mL methanol, 5mL water pretreatment.

The organic phase was 4.13 membrane. 0.22μm.

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