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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3864-2014

Determination of metformin and phenformin in health foods for export

出口保健食品中二甲双胍、苯乙双胍的测定

(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. Chinese Academy of Inspection and Quarantine, Chongqing, People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the health food metformin, liquid chromatography and liquid chromatography phenformin - The MS/MS confirmation methods.

This standard applies to hypoglycemic flour, milk powder, oral liquid, capsule, clear tea thirsty hypoglycemic health food metformin, phenformin Determination 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

3 Method summary

The sample was methanol - after ethanol ultrasonic extraction, solid-phase extraction (SPE), liquid chromatography, external standard. The positive sample was subject to Chromatography - mass spectrometry/mass spectrometry confirmation.

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4 Reagent material

Unless otherwise indicated, the reagents used were of analytical grade water as a water GB/T 6682 regulations.

4.1
Methanol. HPLC fractions.

4.2
acetonitrile. HPLC fractions.

4.3
formic acid. HPLC fractions.

Ammonium acetate 4.4. HPLC grade.

Dipotassium hydrogen 4.5. pure class distinctions.

4.6
sodium heptane. pure class distinctions.

4.7
ethanol.

4.8
glacial acetic acid.

4.9
phosphoric acid.

4.10
in methanol (50.50, by volume). respectively equal amount of methanol (4.1) and water were mixed uniformly.

4.11
methanol - ethanol solution (50.50, volume ratio). namely, to take the same amount of methanol (4.1) and ethanol (4.7) and mix well.

4.12 3% methanol solution of acetic acid. Pipette 3mL glacial acetic acid (4.8) and 97mL of methanol (4.1) and mix well.

4.13 2mmol/L ammonium acetate solution. Weigh 0.154g ammonium acetate (4.4), was added 1.0mL of formic acid (4.3), dissolved in water and dilute to 1000mL.

4.14 0.02mol/L of sodium heptane - phosphate solution. Weigh heptane sulfonate (4.6) 2.023g, dipotassium hydrogen phosphate (4.5) 2.2822g, Phosphoric acid (4.9) 1mL,

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dissolved in water and dilute to 500mL.

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