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SN

INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

SN/T 3146-2012

Determination of Phenformin, Glibenclamide, Gliclazide, Glipizide, Glimepiride in foods for export. LC-MS/MS

出口食品中苯乙双胍、格列苯脲、格列齐特、格列吡嗪、格列美脲检测方法 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.

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

This standard was drafted. People's Republic of China Shanxi Entry-Exit-Entry Inspection and Guangxi People's Republic of China Quarantine Bureau.

1 Scope

This standard specifies the export of health food in phenformin, glyburide, gliclazide, glipizide, glimepiride (see Appendix A) containing - LC - MS/MS detection method.

This standard applies to health food tablets, hard capsules, soft capsules and oral solution phenformin, glyburide, gliclazide, glipizide, Validation and determination of glimepiride content.

2 Method summary

The sample phenformin, glyburide, gliclazide, glipizide, glimepiride with 0.1% formic acid in methanol mixture by ultrasound mention After extraction and centrifugation, with with electrospray ionization - tandem mass spectrometry detector quadrupole liquid chromatography measurement, external standard.

3 Reagents and materials

All reagents unless otherwise specified, were of analytical grade.

3.1

water. ultra pure water.

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3.2
acetonitrile. chromatography.

3.3
Methanol. chromatographically pure.

3.4
formic acid. LC-MS-specific.

3.5 0.1% formic acid solution. Pipette 1mL acid to volume with water to 1000mL.

0.1% formic acid in methanol mixture 3.6. 55 (ratio by volume).

3.7
phenformin standards. 99% or greater purity.

3.8
glyburide Standard. 99% or greater purity.

3.9
gliclazide Standard. 99% or greater purity.

3.10
Glipizide standards. purity greater than or equal to 99%.

3.11
glimepiride Standard. 99% or greater purity.

3.12
standard solution. namely, accurately weighed amount phenformin, glyburide, gliclazide, glipizide, glimepiride standards with methanol Volume preparation of a concentration of 1.000mg/mL concentrations of mixed standard stock solution; if necessary use a blank sample extracts standard stock solution Diluted to a concentration of 5ng/mL, 10ng/mL, 20ng/mL, 30ng/mL, 40ng/mL, mixed standard working solution 50ng/mL in.

3.13
blank sample extracts. Take a sample containing no analyte, 5.1 and 5.2 in accordance with the operation.

4 Instruments and equipment

4.1
high performance liquid chromatography - tandem quadrupole mass spectrometer. ion source distribution.

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4.2
ultrasonic cleaner.

4.3
Mixer.

4.4
Centrifuge. 12000r/min or more.

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