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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 4015-2013

Determination of leucomycin residue in foodstuffs of animal origin for export - LC/MS/MS method

出口动物源性食品中柱晶白霉素残留量检测方法 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.

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. People's Republic of China Hunan Exit Inspection and Quarantine, People's Republic of China Entry-Exit Inspection and Huangpu Quarantine Bureau.

1 Scope

This standard specifies the foods of animal origin Leucomycins residues by liquid chromatography - mass spectrometry/mass spectrometry and confirmation methods.

This standard applies to pork, liver, kidney, beef, fish, milk and other foods of animal origin Leucomycins residual 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

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3 Method summary

The sample Leucomycins ultrasonic extraction with acetonitrile, add water, after purification by hexane fat, liquid chromatography - mass spectrometry/mass spectrometry Testing and validation, external standard.

4 Reagents and materials

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

4.1
acetonitrile. HPLC grade.

4.2
hexane. HPLC grade.

4.3
Methanol. HPLC grade.

4.4
ammonium acetate.

4.5
Standard substance. Leucomycins (LeucomycinA1, C40H67NO14, CAS. 1392-21-8), a purity of greater than or equal to 95.5%.

4.6
standard stock solution. accurately weighed appropriate amount (accurate to 0.1mg) of Leucomycins standard in a brown volumetric flask, and dissolved in water Volume, formulated as standard stock solution to a final concentration 1000mg/L, the following 4 °C dark storage.

4.7
standard intermediate solution. Imbibe 1.0mL standard stock solution (4.6) in 100mL flask, diluted with water to the constant volume 100mL, shake, formulated as 10μg/mL standard intermediate solution, dark save for the following 4 °C.

4.8
Matrix standard solution. draw a certain amount of intermediate standard solution (4.7) as required by Matrix blank solution concentrations were formulated 0.005mg/L, 0.01mg/L, 0.02mg/L, 0.05mg/L, 0.1mg/L, 0.2mg/L, 0.5mg/L of substrate working solution standards.

The standard solution for an existing service is used.

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5 Instruments and equipment

5.1

liquid chromatography tandem quadrupole mass spectrometer. Distribution ionization (ESI).

5.2

Analysis of balance. a sense of the amount of 0.1mg and 0.01g.

5.3

vortex mixer.

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