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ICS 65.120
CCS B46

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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3649-2013

Determination of fluoroquinolones in feedstuff. LC-MS/MS method

饲料中氟喹诺酮类药物含量的检测方法 液相色谱-质谱/质谱法

(English Translation)

Issued on: August 30, 2013 **Implemented on: March 1, 2014**

Issued by: General Administration of Customs

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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 Guangdong CIQ.

1 Scope

This standard specifies the feed enrofloxacin, ciprofloxacin, norfloxacin, ofloxacin, danofloxacin, marbofloxacin, sarafloxacin Secretary Sparfloxacin, double difloxacin, Orbifloxacin, fleroxacin, lomefloxacin and enoxacin sample preparation, liquid chromatography - mass spectrometry/mass spectrometry.

This standard applies to feed, concentrated feed and feed additive premix enrofloxacin, ciprofloxacin, norfloxacin, ofloxacin Star, danofloxacin, marbofloxacin, sarafloxacin, sparfloxacin, double difloxacin, Orbifloxacin, fleroxacin, lomefloxacin and enoxacin Testing.

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 GB/T 14699.1 feed samples

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3 Sample Preparation

According to GB/T 14699.1 provides that take a representative sample, quartering reduced to about 200g, crushed all over 1mm hole sieve, mixed Load leveling grinding jar aside. Sample preparation procedure should prevent sample contamination.

4 Method summary

Feed fluoroquinolones with N, N- dimethylformamide -0.1mol L hydrochloric acid solution/extraction, the extract was OasisHLB solid Phase extraction column purification, liquid chromatography - mass spectrometry/mass spectrometry, external standard.

5 Reagents and materials

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

5.1
acetonitrile. HPLC grade.

5.2
Methanol. HPLC grade.

5.3
N, N- dimethylformamide.

5.4
hydrochloric acid.

5.5 25% aqueous ammonia.

5.6
acid. HPLC grade (purity >=98%).

5.7 0.1mol/L hydrochloric acid solution. Pipette 8.3mL hydrochloric acid (5.4) to 1000mL volumetric flask, add water to the mark, shake spare.

5.8 20% methanol solution. Pipette 20mL of methanol (5.2) to 100mL volumetric flask, add water to the mark, shake spare.

5.9
ammonia - methanol solution (19). lessons 10mL25% aqueous ammonia (5.5) and 90mL of methanol (5.2) and mixed.

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