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# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# SN/T 3648-2013

## Determination of furazolidone, nitrofurantoin, furaltadone and nitrofurazone in animal feeding stuff. HPLC method

饲料中呋喃唑酮、呋喃妥因、呋喃它酮、呋喃西林含量的检测方法 液相色谱法

**(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 of the People's Republic of China.

This standard was drafted. People's Republic of China Guangdong CIQ.

## 1 Scope

This method specifies the feed furazolidone, nitrofurantoin, it furan ketone, liquid chromatography detection methods Furacilin content.

This method is applicable to feed, concentrated feed and feed additive premix furazolidone, nitrofurantoin, furaltadone, nitrofurazone Original drug content 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

## 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 Absorbed into a glass jar mill spare. Sample preparation process operation should prevent sample contamination or change the content of the test substance to be happen.



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## 4 Method summary

The sample was acetonitrile -N, N- dimethylformamide (DMF) mixture and the extracts were washed with a cation exchange column purification, high performance liquid chromatography -UV detector measurement, external standard.

## 5 Reagents

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 (DMF).

**5.4**
phosphoric acid.

**5.5**
hydrochloric acid.

**5.6**
n-hexane.

**5.7**
Ammonia. 25%.

5.8 1mol/L phosphate. 67mL phosphoric acid with water to 1000mL, and mix well.

5.9 0.1mol/L hydrochloric acid. 8.3mL hydrochloric acid with water to 1000mL, and mix well.



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