

CCS X04



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 22949-2008

**Determination nitroimidazole residues in royal jelly and
lyophilized royal jelly farina - LC-MS-MS method**

蜂王浆及冻干粉中硝基咪唑类药物残留量的测定 液相色谱-串联质谱法

Issued on: December 31, 2008

Implemented on: May 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

The Standard Appendix A, Appendix B is an informative annex. This standard is proposed and managed by the State Administration of Quality Supervision, Inspection and Quarantine. This standard was drafted. People's Republic of China Qinhuangdao Exit Inspection and Quarantine, Ningbo Entry-Exit Inspection and Quarantine Bureau. The main drafters of this standard. DrayTek Yin, Liu Yongming, Xie Donghua, Chen Jie, Li, Zhang Ting again, Individual Students Qiuding Hui, Pang Guofang. Royal jelly and lyophilized nitroimidazoles Determination of residues Liquid chromatography - tandem mass spectrometry

1 Scope

GB/T 22949-2008 is the Chinese national standard on determination nitroimidazole residues in royal jelly and lyophilized royal jelly farina - lc-ms-ms method. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2009. Classification: ICS (ICS) , CCS X04. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the royal jelly freeze-dried powder and metronidazole, Dimetridazole, tinidazole, Los metronidazole, metronidazole Courtenay, isopropyl metronidazole, and hydroxy Of metronidazole, metronidazole hydroxylated isopropyl, 2-hydroxymethyl-1-methyl imidazole nitrate -5- of nine kinds of nitroimidazoles residues in liquid chromatography - Cascade Linking mass spectrometry. This standard applies to the nitroimidazoles residues measured bee (royal jelly, freeze-dried powder and honey). The standard samples of royal jelly detection limit. 0.5µg/kg. This standard freeze-dried powder sample detection limit. 1.0µg/kg.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 6379.1 measurement methods and results of Accuracy (trueness and precision) - Part 1. General principles and definitions (GB/T 6379.1- 2004, ISO 5725-1.1994, IDT)

GB/T 6379.2 measurement methods and results of Accuracy (trueness and precision) - Part 2. Determine the standard measurement method to repeat Of the basic methods of reproduction (GB/T 6379.2-2004, ISO 5725-2.1994, IDT)

GB/T 6682 analytical laboratory use specifications and test methods (GB/T 6682-2008, ISO 3696. 1987, MOD) Principle

3 The method of using sodium acetate buffer solution of the sample matrix, ethyl liquid - liquid extraction, after rotary evaporated to dryness, and carbon tetrachloride was added Acid aqueous solution after centrifugation, the upper layer, the use of liquid chromatography-tandem triple quadrupole mass spectrometer (LC-MS-MS) injection test.

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. chromatography.

4.2 Methanol. chromatographically pure.

4.3 ethyl acetate. chromatography.

4.4 formic acid. Chromatographic pure.

4.6 sodium acetate.

4.7 Standard. metronidazole (metronidazole, Acronym MNZ; CAS. 443-48-1), Dimetridazole (dimetridazole, Acronym DMZ; CAS. 551-92-8), tinidazole (tindazole, Acronym TNZ; CAS. 19387-91-8), Los metronidazole (ronidazole, Acronym RNZ; CAS. 7681-76-7), Courtney metronidazole (ternidazole, abbreviation TerNDZ), isopropyl metronidazole (ipronidazole, abbreviation IPZ), hydroxylated metronidazole imidazole (Metronidazole-OH, abbreviated MNZ-OH), hydroxylated isopropyl Nitazoxanide (ipronidazole-OH, abbreviated IPZ-OH), 2-hydroxymethyl-1-carboxylic Glycosylation -5- imidazole nitrate (2-hydroxymethyl-1-methyl-5-nitro-imidazole, Acronym HMMNI), above standard material

purity

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