



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

GB/T 22941-2008

**Determination of lincomycin, erythromycin, spiramycin,
tilmicosin, tylosin, josamycin, kitasamycin, oleandomycin
residues in honey - LC-MS-MS method**

蜂蜜中林可霉素、红霉素、螺旋霉素、替米考星、泰乐菌素、交沙霉素、吉他霉素、竹桃霉素残留量的测定 液相色谱-串联质谱法

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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. The main drafters of this standard. Caoyan Zhong, Zhang Yanmei, Jia light group, Zhang Jinjie, Shiyu Qiu, Pang Guofang. Honey lincomycin, erythromycin, spiramycin, Tilmicosin, tylosin, josamycin, Determination of neomycin guitar, oleandomycin residues Liquid chromatography - tandem mass spectrometry

1 Scope

GB/T 22941-2008 is the Chinese national standard on determination of lincomycin, erythromycin, spiramycin, tilmicosin, tylosin, josamycin, kitasamycin, oleandomycin residues in honey - 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 honey lincomycin, erythromycin, spiramycin, tilmicosin, tylosin, josamycin, guitar neomycin, oleandomycin Neomycin residues in liquid chromatography - tandem mass spectrometry. This standard applies to honey lincomycin, erythromycin, spiramycin, tilmicosin, tylosin, josamycin, guitar neomycin, oleandomycin Determination of neomycin residues. The standard method detection limits were 2.0µg/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 Residues in honey lincomycin, erythromycin, spiramycin, tilmicotin, tylosin, josamycin, guitar neomycin, oleandomycin with Tris (Tris) buffer solution (pH = 9) extracted, filtered, dried OasisHLB SPE column 1) or equivalent SPE Take purification column, eluted with methanol and evaporated to dryness, acetonitrile -0.01mol/L ammonium acetate solution residue was dissolved, over 0.2μm membrane, the sample solution For liquid chromatography - tandem mass spectrometer, internal standard. 1) OasisHLB solid phase extraction columns are Waters company's product trade name, this information is given for the convenience of users of this standard, not the table Endorsement of the product shown. If other equivalent product has the same effect, you can use these equivalent products.

4 Reagents and materials

4.1 Water. GB/T 6682, level.

4.2 Methanol. chromatographically pure.

4.3 acetonitrile. chromatography.

4.4 Tris (Tris). pure class distinctions.

4.5 calcium chloride (CaCl₂ · 2H₂O). pure class distinctions.

4.6 ammonium acetate. pure class distinctions.