

CCS X04



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

GB/T 22995-2008

**Determination of streptomycin, dihydrostreptomycin and
kanamycin residues in honey - LC-MS-MS method**

蜂蜜中链霉素、双氢链霉素和卡那霉素残留量的测定 液相色谱-串联质谱法

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Foreword

The Standard Appendix A, Appendix B is an informative annex. This standard is proposed and managed by the State Bureau of Quality Supervision, People's Republic of China. This standard was drafted. People's Republic of China Qinhuangdao Entry-Exit Inspection and Quarantine Bureau. Drafters of this standard. FEDERATION Zhangshou Jun, Zhang Jinjie, Caoyan Zhong, Cao Yaping, Sun Haixia, Pang Guofang. Honey streptomycin, dihydrostreptomycin and kanamycin Determination of residues of liquid chromatography - tandem mass spectrometry

1 Scope

GB/T 22995-2008 is the Chinese national standard on determination of streptomycin, dihydrostreptomycin and kanamycin 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 streptomycin, dihydrostreptomycin and kanamycin residues in liquid chromatography - tandem mass spectrometry. This standard applies to honey Streptomycin, Dihydrostreptomycin and determination of kanamycin sulfate residues. The standard method detection limit. streptomycin, dihydrostreptomycin and kanamycin detection limits were 5.0µg/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 Honey sample antibiotic with phosphate buffer solution extraction, solid phase extraction column with OasisHLB SPE column 1) and a carboxylic acid type or Quite by purification. Liquid chromatography - tandem mass spectrometry (ESI +) detection, external standard. 1) OasisHLB solid phase extraction columns are Waters company's product trade name given to this information is for the convenience of users of this standard, not the table It shows the product recognition. If the other product has the same effect, you can use these equivalent products.

4 Reagents and materials

Unless otherwise indicated, the reagents are pure class distinctions.

4.1 Water. GB/T 6682, level.

4.2 Methanol. chromatographically pure.

4.3 acetonitrile. chromatography.

4.4 formic acid. Hydrogen

4.5 dipotassium, K₂HPO₄.

4.6 heptane sulfonate, C₇H₁₅NaO₃S · H₂O. 4.7 0.2mol/L phosphate buffer solution. pH = 8.0. Weigh 34.8g potassium phosphate dibasic (4.5), dissolved in water, dilute to 1L, with Phosphoric acid to adjust pH = 8.0. 4.8 0.01mol/L sodium heptane solution. Weigh 2.20g of heptane sulfonate (4.6), dissolved in water, dilute to 1L.

4.9 SPE eluting solution. take 4mL formic acid (4.4), with 0.01mol/L sodium heptane solution (4.8) and dilute to 100mL. 4.10 20% methanol solution (1 + 3). Take 25mL of methanol (4.2), water volume to 100mL.

4.11 Standard substances. streptomycin (CAS. 3810-74-0), Streptomycin (CAS. 128-46-1) and kanamycin (CAS. 25389-94-0); pure Degrees are greater than or equal to 98%.