

CCS X04



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

GB/T 22940-2008

**Determination of dapsons residues in honey - LC-MS-MS
method**

蜂蜜中氨苯砒残留量的测定 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 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, Yang Zhiwei, Jia light group, Zhang Jinjie, Shiyu Qiu, Pang Guofang. Determination of honey dapsone Residues Liquid chromatography - tandem mass spectrometry

1 Scope

GB/T 22940-2008 is the Chinese national standard on determination of dapsone 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 dapsone residues liquid chromatography - tandem mass spectrometry. This standard applies to the determination of honey dapsone residues. The standard method detection limit of 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 Honey dapsone residue with phosphate buffer solution (pH = 9) extracted, filtered, dried OasisHLB1) or equivalent solid phase extraction column Purification, eluted with methanol and evaporated to dryness, the residue dissolved in mobile phase, filter through 0.2 μ m, the sample solution for liquid chromatography - tandem mass spectrometer Fixed, external 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 potassium dihydrogen phosphate ($\text{KH}_2\text{PO}_4 \cdot 3\text{H}_2\text{O}$). pure class distinctions.

Dipotassium hydrogen 4.5. pure class distinctions.

4.6 Eluent. methanol solution (2 + 3). Measure 40mL of methanol (4.2) and 60mL of water and mix well. 4.7 0.05mol/L phosphate buffer solution. Weigh 0.13g of potassium dihydrogen phosphate (4.4) and 5.48g dipotassium hydrogen phosphate (4.5), with Dissolved in water, adjusting the pH value of 9.0, water volume to 1000mL.

4.8 dapsone standard substance (CAS. 80-08-0). purity $\geq 99\%$. 4.9 0.5mg/mL standard stock solution. accurately weighed amount of dapsone standard substance (4.8), with methanol dubbed 0.5mg/mL standard Quasi stock solution, the solution was stored at 4 °C.

4.10 1.0 μ g/mL standard solution. draw 0.1mL standard stock solution (4.9) to the 50mL volumetric flask, constant volume with methanol To the scale, the solution was stored at 4 °C.