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

中华人民共和国国家标准

GB/T 19426-2006
Replace GB/T 19426-2003

**Method for the determination of 497 pesticides and related chemicals
residues in honey fruit juice and wine -GC-MS method**
蜂蜜、果汁和果酒中 497 种农药及相关化学品残留量的测定
气相色谱-质谱法

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Method for the determination of 497 pesticides and related chemicals residues in honey fruit juice and wine -GC-MS method

1. Scope

This standard specifies the gas chromatography-mass spectrometry (GC-MS) method for determination of 497 pesticides and related chemicals residues in honey, fruit juice and fruit wine.

This standard is applicable to the determination of 497 pesticides and related chemicals residues in honey, fruit juice and fruit wine.

The detection limit of the method in this standard: 0.001 mg/kg -0.300 mg/kg (see Annex A).

2. Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 6379.1 Accuracy (trueness and precision of measurement methods and results - Part 1: General principles and definitions (GB/T 6379.1-2004, ISO 5725-1: 1994, IDT)

GB/T 6379.2 Accuracy (trueness and precision) of measurement methods and results - Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method (GB/T 6379.2-2004, ISO 5725-2: 1994, IDT)

GB/T 6682 Water for analytical laboratory use - Specification and test methods (GB/T 6682-2008, ISO 3696: 1987, MOD)

3. Principle

Use dichloromethane for extraction of the sample, purify it by tandem Envi-Carb¹ and Sep-Pak-NH₂² column, use acetonitrile + toluene (3 + 1) to elute pesticides and related chemicals, and use gas chromatography - mass spectrometer for the detection.

¹ Sep-Pak column is the trade name for products of SUPELCO Company, and this information is given for the convenience of users of this standard and does not mean the approval for the product. If other equivalent products have the same effect, those equivalent products may be used.

² Sep-Pak-NH₂ column is the trade name for products of Waters Company, and this information is given for the convenience of users of this standard and does not mean the approval for the product. If other equivalent products have the same effect, those equivalent products may be used.

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