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

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GB/T 23216-2008

**Determination of 503 pesticides and related chemicals
residues in mushrooms—GC-MS method**

食用菌中 503 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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Determination of 503 pesticides and related chemicals residues in mushrooms—GC-MS method

1. Scope

This standard specifies the gas chromatography - mass spectrometry (GC-MS) method for determination of 503 pesticides and related chemicals residues in nameko, needle mushroom, black fungus and lentinus edodes (see Annex A and Annex F).

This standard specifies the qualitative identification for 503 sorts of pesticides and relevant chemicals in nameko, needle mushroom, black fungus and lentinus edodes as well as the quantitative identification for 478 pesticides and relevant chemicals.

The detection limit of the method for quantitative determination of 478 quantitative pesticides and related chemicals in this standard is 0.0013mg/kg – 1.6 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)

3. Principle

Use acetonitrile for homogenate extraction of the sample, salt out and centrifuge it, purify it by solid phase extraction column, use acetonitrile + toluene (3 + 1, volume ratio) to elute the pesticides and related chemicals, and use liquid chromatography - tandem mass spectrometer for determination and internal standard method for quantification.

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