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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 20770-2008
Replace GB/T 20770-2006

**Determination of 486 pesticides and related chemicals
residues in grains - LC-MS-MS method**

**粮谷中 486 种农药及相关化学品残留量的测定
液相色谱-串联质谱法**

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Determination of 486 pesticides and related chemicals residues in grains - LC-MS-MS method

1. Scope

This standard specifies the LC-MS-MS method for determination of 486 pesticides and related chemicals residues in barley, wheat, oat, rice, corn.

This standard applies to qualitative identification of 486 pesticides and related chemicals residues in barley, wheat, oat, rice and corn and quantitative determination of 376 pesticides and related chemicals residues.

The detection limit of the method for quantitative determination of 376 pesticides and related chemicals in this standard is $0.02 \mu\text{g}/\text{kg} \sim 0.96 \text{ mg}/\text{kg}$ (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 5491 Inspection of grain and oilseeds—Methods for sampling and sample reduction

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 acetonitrile homogenization to extract the pesticides and related chemicals in the sample, purify them with gel permeation chromatography, and use liquid chromatography - tandem mass spectrometer (LC-MS-MS) for determination and to external standard method for quantitative determination.



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