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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC  
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GB/T 20759-2006

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**Method for the determination of sixteen sulfonamide residues in  
livestock and poultry muscles - LC-MS-MS method**

**畜禽肉中十六种磺胺类药物残留量的测定**

**液相色谱-串联质谱法**

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**Standardization Administration of the People's Republic of China**

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## **Foreword**

Annex A and Annex B of this Standard are informative annex.

This Standard is proposed by Qinhuangdao Entry-Exit Inspection and Quarantine Bureau

This Standard is under the jurisdiction of General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China.

Chief draft units of this Standard: Qinhuangdao Entry-Exit Inspection and Quarantine Bureau.

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This Standard is firstly issued.

# Method for the determination of sixteen sulfonamide residues in livestock and poultry muscles - LC-MS-MS method

## 1 Scope

This standard specifies the determination method of liquid chromatogram - tandem mass spectrum for 16 kinds of sulfa residues in beef, mutton, pork, and chicken and rabbit meat.

This standard is applicable to the determination of 16 sulfa residues in beef, mutton, pork, and chicken and rabbit meat.

The detection limit of the method in this standard: Sulfamethizole is 2.5 $\mu\text{g}/\text{kg}$ ; the sulfacetamide, sulfadiazine, sulfapyridine, sulfamethoxazole, sulfamerazine, sulfachloropyridazine, sulfamonomethoxine, sulfadoxine and sulfamethoxazole are 5.0 $\mu\text{g}/\text{kg}$ ; the sulfathiazole, sulfamethoxy pyridazine and sulfadimethoxine are 10.0 $\mu\text{g}/\text{kg}$ ; the sulfameter and sulfamethazine are 20.0 $\mu\text{g}/\text{kg}$ ; the sulfaphenazole is 40.0 $\mu\text{g}/\text{kg}$ .

## 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 6379.1-2004, ISO 5725-1: 1994, IDT)

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

## 3 Principle

The sulfa residues in livestock and poultry meat should be extracted with acetonitrile. After centrifugation, the supernatant fluid should be concentrated and dried with the rotary evaporator, the residue should be dissolved with mobile phase, and after degreasing by n-hexane, the sample



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