



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

GB 23200.76-2016

Replacing SN/T 2581-2010

**Food safety national standard -- Determination of residual
amoxicillin residues in food by liquid chromatography-mass
spectrometry / mass spectrometry**

食品中氟苯虫酰胺残留量的测定 液相色谱-质谱 质谱法

(English Translation)

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Foreword

This standard replaces SN/T 2581-2010 "Determination of fenapamide residues in food for import and export by liquid chromatography-mass spectrometry".

Compared with SN/T 2581-2010, the main changes are as follows.

- Standard text format is modified to national standard text format for food safety;
- the name of the "import and export food" to "food";

- increase the "other food reference implementation" in the standard range.

This standard replaced the previous version of the standard release.

-SN/T 2581-2010.

National standards for food safety Determination of residual amoxicillin residues in food by liquid chromatography - mass spectrometry/mass spectrometry

1 Scope

This standard specifies a liquid chromatography-mass spectrometry/mass spectrometric method for the determination of florfenicol residues in foodstuffs.

This standard applies to onions, radishes, tomatoes, orange, soybeans, apples, tea, walnuts, fish, pork, liver and milk Determination and confirmation of residues of amylamide, other food can refer to the implementation.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this file. For undated references, the latest edition (including all modifications) applies to this document.

GB 2763 National Standard for Food Safety - Maximum Residue Limit of Pesticides in Foodstuffs GB/T 6682 Analytical laboratory water specifications and test methods

3 Principle

The samples were extracted with acetonitrile in acetonitrile, and the extract was extracted by graphite carbon-amino solid phase extraction column or Florisil solid phase extraction Column chromatography, liquid chromatography - mass spectrometry/mass spectrometry, external standard method.

4 Reagents and materials

All reagents in addition to special instructions, are analytical pure, water for the GB/T 6682 of the provisions of a water.

4.1 Reagents

4.1.1

Acetonitrile (C₂H₃N). Chromatographic pure.

4.1.2

Toluene (C₇H₈). Chromatographic pure.

4.1.3

n-hexane (C₆H₁₄). chromatographic purity.

4.1.4

Acetone (C₃H₆O). Chromatographic pure.

4.1.5

Sodium chloride (NaCl).

4.1.6

anhydrous sodium sulfate (Na₂SO₄). 650 °C burning 4 h, in the dryer to cool to room temperature, stored in a sealed bottle in reserve.

4.2 Solution preparation

4.2.1

acetonitrile saturated n-hexane. 250 mL of the separatory funnel by adding 150 ml of n-hexane and 50 mL of acetonitrile blending 5 min, take the upper spare.

4.2.2

acetonitrile - toluene (3 1, V/V). measuring the amount of 350 mL of acetonitrile and 150 mL of toluene mixed with spare.

4.2.3

Acetone-n-Hexane (1 1, V/V). Mix.200 mL of n-hexane and.200 mL of acetone in a graduated cylinder.

4.2.4

acetonitrile - water (7 3, V/V). with a measuring cylinder to take 350 mL of acetonitrile and 150 mL of water mixed spare.

4.3 Standards

4.3.1

Flubendiamide standard. purity greater than or equal 99%, CAS number. 272451-65-7, molecular formula.

C₂₃H₂₂F₇N₂O₄S, molecular weight 682.39.

4.4 Standard solution preparation

4.4.1

Fenofibrate standard stock solution (100 g/mL). accurately weighed the appropriate amount of phenytoin amide standard, with acetonitrile dubbed Standard of 100 g/mL standard stock solution, the standard stock solution placed in a refrigerator at 4 °C in the dark sealed.

4.4.2

Fluorobenzene Amide Matrix Standard Working Solution. Standard stock solution is diluted with a blank matrix of various samples as needed before use.

Appropriate concentration of standard working fluid. Matrix standard working fluid should be used with the current distribution.

4.5 Materials

4.5.1

Graphite Carbon-Amino Solid Phase Extraction Column. 500 mg/500 mg, 5 mL or equivalent. Pre-leaching with 5 mL of acetonitrile-toluene before addition column.

4.5.2

Florisil Solid Phase Extraction Column. 1000 mg, 5 mL or equivalent. Add 2 mL of acetone and 4 mL of n-hexane before addition Wash the column.

4.5.3

Microporous membrane. 0.2 m, general type.

5 Instruments and equipment

5.1

Liquid Chromatography - Mass Spectrometry/Mass Spectrometer. Distribution Spray Ion Source (ESI).

5.2

Analysis of balance. 0.01 g and 0.0001 g.

5.3

Tissue crusher.

5.4

Homogenizer. 10000 r/min.