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SN

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

SN/T 1766.3-2006

**Determination of pesticide residues in greasy wool. Part 3:
Determination of diflubenzuron and triflumuron residues. High
performance liquid chromatography**

含脂羊毛中农药残留量的测定 第3部分：除虫脲和杀铃脲的测定 高效液相色谱法
(English Translation)

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Foreword

SN/T 1766 "Determination of Pesticide Residues in Fat-Free Wool" is divided into three parts.

--- Part 1. Determination of organophosphorus pesticides - Gas chromatography;

--- Part 2. Determination of organochlorine and pyrethroid pesticides by gas chromatography;

--- Part 3. Determination of diflubenzuron and triflumuron by high performance liquid chromatography.

This part is the third part of SN/T 1766.

Appendix A of this section is an informative annex.

This part is proposed and managed by the National Certification and Accreditation Administration.

This section drafted by. Shanghai Entry-Exit Inspection and Quarantine Bureau of the People's Republic of China, School of Chemistry and Chemical Engineering, Donghua University.

Drafters of this section. Jiang Haining, Wu Xiongying, Meng Weidong, Yang Juan, Qi Xiang, Zhu Mingjie.

This section is the first industry standard for entry-exit inspection and quarantine.

Determination of pesticide residues in fat-containing wool Part 3. Determination of diflubenzuron and triflumuron High performance liquid chromatography WARNING. Certain reagents and equipment used during operation may be harmful to humans. Please take appropriate measures.

1 Scope

This part of SN/T 1766 specifies the use of high performance liquid chromatography for the determination of diflubenzuron and triflumuron in fat-containing wool.

(triflumuron).

This section applies to the determination of the above two benzoylurea pesticide residues in fat-containing wool.

2 Normative references

The provisions in the following documents become the provisions of this part by reference to this part of SN/T 1766. Quotations with dated , all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouragement is achieved under this section the parties to the agreement study whether the latest versions of these documents can be used. For undated references, the latest edition applies to this section.

SN/T 0473 Import and export of fat-containing wool inspection procedures

3 Method summary

The sample was extracted with n-hexane-diethyl ether mixed solvent, and the extract was purified by methanol extraction and neutral alumina solid phase extraction column.

The chromatograph of the detector was performed by high performance liquid chromatography and quantified by an external standard method.

4 Reagents and materials

4.1

Methanol. Chromatographically pure.

4.2

Acetonitrile. chromatographically pure.

4.3

Ethyl acetate. chromatographically pure.

4.4

Mixed solvent of n-hexane and diethyl ether (volume ratio 2.1). Prepared by chromatography or analytically pure n-hexane and analytically pure diethyl ether.

4.5

Reference materials.

--- Diflubenzuron standard. purity $\geq 99.9\%$;

--- Triflumuron standard. purity $\geq 99.9\%$.

4.6

Mixed standard stock solution. Diflubenzuron and triflumuron standards were prepared with acetonitrile in a mixed standard stock solution of 100 $\mu\text{g/mL}$, refrigerated save.

4.7

Mixed standard working solution. dilute the standard stock solution of diflubenzuron (4.6) with acetonitrile to 0.0 $\mu\text{g/mL}$, 1.18 $\mu\text{g/mL}$, 2.36 $\mu\text{g/mL}$, 4.72 $\mu\text{g/mL}$, 7.08 $\mu\text{g/mL}$, 9.44 $\mu\text{g/mL}$ and 11.8 $\mu\text{g/mL}$ series of standard working solutions, the standard stock solution of triflumuron was diluted with acetonitrile to 0.0 $\mu\text{g/mL}$, 1.15 $\mu\text{g/mL}$, 2.30 $\mu\text{g/mL}$, 4.60 $\mu\text{g/mL}$, 6.90 $\mu\text{g/mL}$, A series of standard working solutions of seven concentrations of 9.20 $\mu\text{g/mL}$ and 11.5 $\mu\text{g/mL}$.

4.8

Solid phase extraction column. neutral alumina column (1000 mg).

4.9

Ultrapure water.