

ICS 59.140.20; 59.060
CCS B 45;W20

SN

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

SN/T 1766.1-2006

**Determination of pesticide residues in greasy wool. Part 1:
Determination of organophosphorus pesticide residues. Gas
chromatography**

含脂羊毛中农药残留量的测定 第1部分：有机磷农药的测定 气相色谱法
(English Translation)

Issued on: April 25, 2006

Implemented on: November 15, 2006

**Issued by: The General Administration of Quality Supervision, Inspection
and Quarantine**

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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 first 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.

Drafters of this section. Jiang Haining, Wu Xiongying, Yang Juan, Fei Xudong, Tang Minfeng, Shi Li.

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

Determination of pesticide residues in fat-containing wool Part 1. Determination of organophosphorus pesticides Gas 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 determination of propetamphos, diazinon, and dimethionine in fat-containing wool by gas chromatography.

In addition to linear phosphorus (dichlofention), fenchlorphos, coumaphos, chlorpyriphos, chlorpyrifos (chlorfenvinphos) and other seven organophosphorus pesticides multi-residue method.

This section applies to the determination of the above seven organophosphorus 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 gas chromatograph of the detector was subjected to chromatographic analysis and quantified by an external standard method.

4 Reagents and materials

4.1

Methanol. pesticide residue level.

4.2

Acetone. 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.

- Acetophene (prophetamphos) standard. purity $\geq 95.8\%$;
- diazinon standard. purity $\geq 99.5\%$;
- In addition to line phosphorus (dichlofention) standard. purity $\geq 97.2\%$;
- fenchlorphos standard. purity $\geq 99.3\%$;
- Coumaphos standard. purity $\geq 99.8\%$;
- Chlorpyriphos standard. purity $\geq 99.8\%$;
- chlorfenvinphos standard. purity $\geq 94.0\%$.

4.6

Mixed standard stock solution. Each organic phosphorus standard was formulated into 500 $\mu\text{g/mL}$ mixed standard stock solution with acetone and stored in cold storage.

4.7

Mixed standard working solution. Dilute standard stock solution (4.6) with acetone to 0.0 $\mu\text{g/mL}$, 0.2 $\mu\text{g/mL}$, 0.5 $\mu\text{g/mL}$, A series of standard working solutions of seven concentrations of 1.0 $\mu\text{g/mL}$, 1.5 $\mu\text{g/mL}$, 2.0 $\mu\text{g/mL}$, and 2.5 $\mu\text{g/mL}$.