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

SN/T 1980-2007

**Determination of progestogens residues in food of animal
origin for import and export. HPLC-MS method**

进出口动物源性食品中孕激素类药物残留量的检测方法 高效液相色谱-质谱/质谱
法

(English Translation)

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Foreword

The Standard Appendix A and Appendix B are informative.

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

This standard by the People's Republic of China Shandong Entry-Exit Inspection and Quarantine, Shenzhen People's Republic of China, the Chinese people People's Republic of Shanghai Exit Inspection and Quarantine, Chinese Academy of Inspection and Quarantine is responsible for drafting.

1 Scope

This standard specifies the foods of animal origin 17alpha- hydroxyprogesterone, altrenogest, norgestrel, norethindrone, melengestrol, megestrol acetate, progesterone Sample preparation, liquid chromatography ketone, medroxyprogesterone, chlormadinone and other nine kinds of progesterone drugs residues - mass spectrometry/mass spectrometry and confirmation methods.

This standard applies to internal organs, muscles, aquatic products, honey and milk and other foods of animal origin 17alpha- hydroxyprogesterone, altrenogest, norgestrel pregnant , Norethindrone, melengestrol, megestrol acetate, progesterone, medroxyprogesterone, chlormadinone and other nine kinds of progestins determination of drug residues.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

Laboratory use specifications and test methods GB/T 6682-1992 Analysis

3.1 Sample preparation requirements

Sample preparation process operation should prevent sample contamination or the occurrence of the change of residue content.

3.2 Animal muscle, organs and aquatic products

Remove all the samples taken from a representative sample of the edible portion of about 500g, with the organization stamp mill fully broken evenly into a clean container Vessel, sealed, labeled and marked, stored frozen at -18 °C below.

3.3 Milk, honey samples

Remove all the samples taken from a representative sample 500g, mix well, they are divided into two, respectively, into a clean container, sealed and and labeled, stored frozen at -18 °C below.

4 Method summary

After the sample is added to an appropriate amount of ammonium acetate buffer by hydrolysis, samples were extracted with acetonitrile of nine progesterone residue, n-hexane - methylene chloride Degreasing, solid-phase extraction (SPE), concentrated, high performance liquid chromatography/tandem mass spectrometry, internal standard.

5 Reagents and materials

Unless otherwise specified, all reagents were of analytical grade water as a water GB/T 6682-1992 requirements.

5.1

Acetonitrile, HPLC grade.

5.2

n-hexane, chromatography grade.

5.3

dichloromethane, HPLC grade.

5.4

Methanol, HPLC grade.

5.5

glacial acetic acid, HPLC grade.

5.6

n-propanol, HPLC grade.

5.7

ammonium acetate.