



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

GB/T 22953-2008

**Determination of ivermectin, abamectin, doramectin and
eprinomectin residues in fugu, eel and baked eel - LC-MS-MS
method**

河豚鱼、鳗鱼和烤鳗中伊维菌素、阿维菌素、多拉菌素和乙酰氨基阿维菌素残留
量的测定 液相色谱-串联质谱法

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Foreword

The Standard Appendix A, Appendix B is an informative annex. This standard is proposed and managed by the State Administration of Quality Supervision, Inspection and Quarantine. This standard was drafted. People's Republic of China Qinhuangdao Exit Inspection and Quarantine, People's Republic of China Guangdong Entry-Exit Inspection and Quarantine Bureau. The main drafters of this standard. Raymond, Wuying Xuan, Yao Yang Xun, Ouyang Lun, Linhai Dan, Pang Guofang. Puffer fish, eels and eel in ivermectin, avermectin, Doramectin and eprinomectin residues in Determination of liquid chromatography - tandem mass spectrometry

1 Scope

GB/T 22953-2008 is the Chinese national standard on determination of ivermectin, abamectin, doramectin and eprinomectin residues in fugu, eel and baked eel - lc-ms-ms method. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2009. Classification: ICS (ICS) , CCS X04. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the puffer fish, eels and eel in avermectin ivermectin (ivermectin), avermectin (abamec- tin), doramectin (doramectin) and eprinomectin (eprinomectin) residual amount of liquid chromatography - tandem mass spectrometry method. This standard applies to muscle puffer fish, eel muscle, Eels ivermectin, avermectin, doramectin and eprinomectin residues Remaining contents. The standard method detection limit. puffer fish muscle, muscle eel, Eels ivermectin, avermectin, doramectin and acetamido A Ivermectin were 5µg/kg.

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.

GB/T 6379.1 measurement methods and results of Accuracy (trueness and precision) - Part 1. General principles and definitions (GB/T 6379.1-2004, ISO 5725-1.1994, IDT)

GB/T 6379.2 measurement methods and results of Accuracy (trueness and precision) - Part 2. Determine the standard measurement method to repeat Of the basic methods of reproduction (GB/T 6379.2-2004, ISO 5725-2.1994, IDT)

GB/T 6682 analytical laboratory use specifications and test methods (GB/T 6682-2008, ISO 3696. 1987, MOD) Principle

3 Puffer fish, eels and eel residual ivermectin, avermectin, doramectin and eprinomectin residue was extracted with acetonitrile After hexane, and a neutral alumina column purification. Sample solution for chromatography - tandem mass spectrometer, external standard peak area quantification.

4 Reagents and materials

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

4.1 acetonitrile. chromatography.

4.3 n-hexane saturated with acetonitrile before use.

4.4 neutral alumina. I activity level.

4.5 anhydrous sodium sulfate. After burning 650 °C 4h, placed in a desiccator.

4.6 neutral alumina column purification. Take an empty SPE tube, the lower fill a small amount of cotton was charged with 2g neutral alumina (4.4), on 4g portions over anhydrous sodium sulfate and then filled, filling before use.

4.7 ivermectin, avermectin, doramectin, eprinomectin standard substance. purity $\geq 99\%$.

4.8 100 μ g/mL standard stock solution. accurately weighed amount of ivermectin, avermectin, doramectin and eprinomectin standard Associate products (accurate to 0.1mg), were prepared with acetonitrile into a standard stock solution 100 μ g/mL of, -18 °C storage.