



GB 31610.6-2023

National Food Safety Standard **Inspection of Sparganum larvae of Spirometra** **mansoni in Animal-derived Aquatic Products and** **Their Products**

食品安全国家标准 动物性水产品及其制品中
曼氏迭宫绦虫裂头蚴的检验

National Health Commission of the People's
Republic of China
State Administration for Market Regulation of the
People's Republic of China

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National Food Safety Standard

Inspection of Sparganum larvae of Spirometra Mansoni in Animal Aquatic Products and Their Products

1. Scope

This standard specifies the morphology and PCR inspection methods for the sparganum larvae of Spirometra mansoni in animal-derived aquatic products and their products.

This standard applies to the inspection of sparganum larvae of Spirometra mansoni in animal-derived aquatic products and their products .

2. Principle

The sparganum larvae of Spirometra mansoni in animal aquatic products and their products mainly parasitizes in the muscles of aquatic products such as frogs. The worm bodies were obtained by dissection and separation, and the species of sparganum larvae was preliminarily determined based on its morphological structure. The cytochrome oxidase (cox I) gene fragment of the mitochondrial DNA of Spirometra mansoni was amplified and sequenced to identify the Spirometra mansoni larvae.

3. Instruments and Equipment

3.1 Biological microscope: 40×~100×.

3.2 Stereo microscope: 7.5×~150×.

3.3 PCR amplifier.

3.4 Gel imaging system.

3.5 Electrophoresis apparatus.

3.6 High-speed centrifuge: speed ≥ 12000 r/min.

3.7 Micropipette: 0.2 μ L~2.5 μ L, 1 μ L~10 μ L, 10 μ L~100 μ L, 100 μ L~1000 μ L.

4. Reagents and Materials

4.1 Reagents



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