



GB 31610.3-2023

National Food Safety Standard

Inspection of *Angiostrongylus Cantonensis* in Animal aquatic Products and Their Products

食品安全国家标准 动物性水产品及其制品中
广州管圆线虫的检验

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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1. Scope

This standard specifies the morphological and PCR test methods for the presence of *Angiostrongylus cantonensis* in animal aquatic products and their products.

This standard applies to the inspection of *Angiostrongylus cantonensis* larvae in animal aquatic products and their products.

2. Principle

The larvae of *Angiostrongylus cantonensis* in animal aquatic products and their products mainly parasitize in the muscles and other tissues of aquatic products such as golden apple snails. The worm bodies are obtained by dissecting and separating or digesting the muscles and other tissues of animal aquatic products and their products with pepsin. The species of the larvae are preliminarily determined based on their morphological characteristics. The larvae of *Angiostrongylus cantonensis* are identified by amplifying and sequencing the internal transcribed spacer (ITS) gene fragment of the ribosomal DNA of *Angiostrongylus cantonensis*.

3. Instruments and Equipment

3.1 Biological microscope: 100×~400×.

3.2 Stereo microscope: 7.5×~150×.

3.3 PCR amplifier.

3.4 Gel imaging system.

3.5 Electrophoresis apparatus.

3.6 Constant temperature incubator: 37℃±1℃.

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

3.8 Mesh sieve: aperture 0.15mm (100 mesh).

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