



GB 31610.1-2023

National Food Safety Standard

Inspection of Gnathostoma 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
中颚口线虫的检验

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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Inspection of Gnathostoma in Animal Aquatic Products and Their Products

1. Scope

This standard specifies the morphological and PCR test methods for the larvae of Gnathostoma in animal-derived aquatic products and their products. This standard applies to the inspection of Gnathostoma larvae in animal aquatic products and their products.

2. Principle

The larvae of the Gnathostoma in animal aquatic products and their products mainly parasitize in the muscles and other tissues of freshwater fish, amphibians and other aquatic products. The worm bodies are obtained by digesting the animal host tissue with pepsin. Based on the morphological characteristics of the larvae, it is determined that the larvae are of Gnathostoma. The common larvae of Gnathostoma are identified by amplifying and sequencing the gene fragment of the first subunit (*cox1*) of the mitochondrial cytochrome C oxidase of Gnathostoma.

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 Magnetic stirrer.

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

3.9 Mesh sieve: aperture 2mm (10 mesh).



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