



GB 31610.2-2023

National Food Safety Standard

Inspection of Anisakidae in Animal Aquatic Products
and Their productsProducts and Their products

食品安全国家标准 动物性水产品及其制品中
异尖线虫的检验

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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食品安全国家标准

动物性水产品及其制品中异尖线虫的检验

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National Food Safety Standard

Inspection of Anisakidae in Animal Aquatic Products and Their Products

1. Scope

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

2. Principle

The Anisakidae larvae in animal aquatic products and their products mainly parasitize in tissues such as the muscles and organ surfaces of marine fish, crustaceans, and mollusks. The worm bodies are obtained by dissecting or digesting the muscles, organs and other tissues of animal aquatic products and their products with pepsin, and the larvae are identified as Anisakidae larvae based on their morphological characteristics. The common Anisakidae larvae are identified by amplifying and sequencing the internal transcribed spacer (ITS) gene fragment of the Anisakidae ribosomal DNA of the suspected worms.

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 ≥12000r/min.

3.8 Screen: aperture 2mm (10 mesh).

3.9 Conical measuring cup: 1000mL.



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