



GB 31610.4-2023

National Food Safety Standard

Inspection of Clonorchis Sinensis 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华支睾吸虫的检验

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 Clonorchis sinensis metacercariae in animal aquatic products and their products.

This standard applies to the inspection of Clonorchis sinensis metacercariae in animal aquatic products and their products.

2. Principle

The metacercariae of Clonorchis sinensis in animal aquatic products and their products mainly parasitize the muscle tissue of freshwater fish and freshwater shrimp. The metacercariae are observed by the compression method or obtained by digesting the muscle tissue of animal aquatic products and their products with pepsin. Based on the morphological characteristics of the metacercariae, the type of metacercariae can be preliminarily determined. The metacercariae of Clonorchis sinensis are identified by amplifying and sequencing the second internal transcribed spacer region (ITS2) gene fragment of Clonorchis sinensis ribosomal DNA.

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°C±1°C.

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

3.8 Screen: aperture 0.25mm (60 mesh).



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