



GB 31610.5-2023

National Food Safety Standard

Inspection of Paragonimus 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并殖吸虫的检验

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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ChemLinked Team, REACH24H Consulting Group | <http://food.chemlinked.com>

14F, #3 Bldg., Haichuang Technology Center, No. 1288 Wenyi West Road, Hangzhou, China. PC: 311121

Tel: +86 571 8710 3822 | Fax: +86 571 8700 7566 | Email: food@chemlinked.com

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Inspection of Paragonimus in Animal Aquatic Products and Their Products

1. Scope

This standard specifies the morphological and PCR test methods for the metacercariae of Paragonimus in animal aquatic products and their products.

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

2. Principle

The metacercariae of Paragonimus in animal aquatic products and their products mainly parasitize in the muscle tissue of crustaceans such as crabs, mantis crickets and swamp shrimps. The metacercariae are obtained by crushing and separating the precipitate or digesting the animal host tissue with pepsin after crushing. The type of metacercariae can be preliminarily determined based on the morphological characteristics of the metacercariae. The metacercariae of Paragonimus can be identified by amplifying and sequencing the second internal transcribed spacer region (ITS2) gene fragment of the Paragonimus 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℃±1℃.

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

3.8 Mesh sieve: aperture 2mm (10 mesh); aperture 0.425mm (40 mesh).



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