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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 31610.1-2023

**National Food Safety Standards Inspection of Gnatostome
nematodes in animal aquatic products and their products**

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4.1 Reagents

1 Scope

This standard specifies the morphological and PCR detection methods of Gnathostoma larvae in animal aquatic products and their products.

This standard is applicable to the inspection of Gnathostoma larvae in animal aquatic products and their products.

2 Principles

Gnathostome larvae in animal aquatic products and their products mainly parasitize in the muscles and other tissues of freshwater fish, amphibians and other aquatic products.

The parasites are obtained by digesting animal host tissues with pepsin. According to the morphological characteristics of the larvae, the larvae of Gnathostoma are judged. To detect suspicious parasites The gene fragment of the mitochondrial cytochrome C oxidase subunit I (cox1) of Gnathostoma nematode was over-amplified and sequenced to conduct the analysis of common Gnathostoma larvae.

identification.

4.1.2 Physiological saline. 0.85% NaCl solution.

4.1.3 1mol/L Tris-HCl solution (pH8.0).

4.1.4 0.5mol/L EDTA solution (pH8.0).

4.1.5 10% SDS solution.

4.1.6 5mol/L NaCl solution.

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