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

GB/T 15101.1-2008

Replacing GB/T 15101.1-2008, GB/T 15101.2-2008

Chinese shrimp - Broodstock and postlarvae

中国对虾 亲虾

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document replaces GB/T 15101.1-2008 "Chinese Shrimp Broodstock" and GB/T 15101.2-2008 "Chinese Shrimp Seedlings".

This document is based on GB/T 15101.1-2008, and integrates the content of GB/T 15101.2-2008. It is consistent with GB/T 15101.1-2008.

Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows.

- a) The "specifications" of the parent shrimp have been changed (see 4.3.3, 4.3.1 in the 2008 version);
- b) Added requirements for broodstock shrimp "diseases" (see 4.4);
- c) Added information on the "source," "quality requirements," and "diseases" of the seedlings (see 5.1, 5.2, and 5.3);
- d) Added "testing methods" for the source and diseases of broodstock shrimp (see 6.1.1, 6.1.5) and "testing methods" for seedlings (see 6.2);
- e) Added "inspection rules" for seedlings (see 7.2);
- f) A "Seedling Counting Method" has been added (see Chapter 8);
- g) Added "transportation requirements" for seedlings (see 9.2).

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the Ministry of Agriculture and Rural Affairs of the People's Republic of China.

This document is under the jurisdiction of the National Technical Committee on Fisheries Standardization (SAC/TC156).

1 Scope

Disease, inspection rules and transportation requirements, and the corresponding inspection methods and seedling counting methods are described.

This document applies to the quality assessment of Chinese shrimp broodstock and seedlings.

4.1 Source

Natural marine areas or original (superior) seed farms.

4.2 Germplasm

It should comply with the provisions of GB/T 19782.

4.3.1 Appearance

The shrimp are intact, without external injuries or deformities; their surfaces are smooth and free of any attached substances; their color is normal, a natural shrimp-blue; and there are no obvious visible symptoms.

4.3.2 Vitality

It has a strong jumping ability, swims normally, and responds quickly to external stimuli. When not swimming, it lies prone on the bottom of the water and does not lie on its side.

4.3.3 Specifications

See Table 1.

4.3.4 Characteristics during the reproductive period

The male shrimp's testes change from colorless and transparent to white, with the spermatophore area turning milky white. The female shrimp's spermatophore is full and slightly convex, containing a milky white spermatophore.

The ovaries are well-developed, with clear outlines, and are grayish-green or dark green in color, consistent with the developmental stage. See Appendix A for the characteristics of ovarian developmental stages.

4.4 Epidemics

White spot syndrome (WSD), infectious myelopathy (IMN) in shrimp, infectious hypodermal and hematopoietic organ necrosis (IHHN), acute Hepatopancreatic necrosis disease (AHPND).

5.1 Source

Seedlings bred from parent shrimp that meet the requirements of Chapter 4.

5.2.1 Specifications

Average body length $\geq 0.8\text{cm}$.

5.2.2 Appearance

They are uniform in size, have normal color, smooth surface, and strong vitality. When placed in a plate or basin, they quickly sink to the bottom and exhibit a noticeable top flow phenomenon after being stirred.

5.2.3 Quality

It should meet the requirements of Table 2.

5.3 Epidemics

White spot syndrome (WSD), infectious myelopathy (IMN) in shrimp, infectious hypodermal and hematopoietic organ necrosis (IHHN), acute Hepatopancreatic necrosis disease (AHPND).

6.1.1 Source

Review harvesting and purchase records or broodstock breeding files.

6.1.2 Germplasm

Test according to the method given in GB/T 19782.

6.1.3 Appearance and Vitality

Observe with the naked eye under natural light.

6.1.4 Specifications

Measured according to the method given in SC/T 1102.

6.1.5 Epidemics

White spot syndrome was detected according to the method given in GB/T 28630.2; shrimp infectious myonecrosis was detected according to the method given in SN/T 3492.

Tests for infectious subcutaneous and hematopoietic organ necrosis should be performed according to the method given in GB/T 25878; tests for acute hepatopancreatic necrosis should be performed according to SC/T 7233.

The proposed detection method.

6.2.1 Source

Check purchase records or breeding files.

6.2.2 Specifications

Measured according to the method given in SC/T 1102.