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

GB/T 22919.9-2024

Aquatic feeds - Part 9: Formula feed for largemouth bass

水产配合饲料 第9部分：大口黑鲈配合饲料

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document is Part 9 of GB/T 22919 "Compound feed for aquatic products". GB/T 22919 has been published in the following parts.

- 1. Formulated feeds for *Penaeus monodon*;
- 2. Formulated feeds for cobia;
- 3. Formulated feeds for sea bass;
- 4. Formulated feed for red fish;
- 5. Formulated feed for *Penaeus vannamei*;
- 6. Formulated feeds for grouper;
- 7. Formulated feed for sea cucumbers;
- 8. Formulated feed for pangasius;
- 9. Formulated feeds for largemouth bass;
- 10. Formulated feeds for tilapia;
- 11. Formulated feeds for loach;

12. Formulated feeds for crucian carp. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed and coordinated by the National Feed Industry Standardization Technical Committee (SAC/TC76). The drafting units of this document. Tongwei Agricultural Development Co., Ltd., Feed Research Institute of Chinese Academy of Agricultural Sciences, and Zhejiang Ocean University. The main

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1 Scope

China's national standard for compound feed for largemouth bass. It is Part 9 of GB/T 22919 and defines the terms and definitions, gives the product classification and specifies the technical requirements, the inspection rules, the labelling, packaging, transport and storage. Largemouth bass is a freshwater carnivore and it presents the hardest feed problem of the species in this series. Traditionally it was farmed on trash fish - low-value wild-caught fish fed whole - which is wasteful, unreliable in supply, a route for disease, and increasingly unacceptable. Converting the industry to compound feed is what this standard supports, and the obstacle is the fish itself. It is a strict carnivore with a high protein requirement and a very limited ability to use carbohydrate: fed a diet with the starch content of an ordinary fish feed it develops glycogen accumulation in the liver, and hepatic damage is the characteristic disorder of intensively farmed bass. It is also a reluctant feeder on artificial diets and has to be weaned onto them, so palatability and pellet behaviour are not secondary. The standard accordingly sets a high crude protein by growth stage, a carbohydrate ceiling rather than merely a fibre one, the essential amino acids, the lipid content and the essential fatty acids, the moisture and ash, and the pellet size, floating or sinking behaviour and water stability appropriate to a fish that takes food from the water column by sight. The safety limits apply as elsewhere in the series. Issued on 15 March 2024 and in force since 1 October 2024.

This document provides the product classification of largemouth bass feed, and specifies the technical requirements, inspection rules, labeling, packaging, transportation, storage and Shelf life, and describes the corresponding sampling and testing methods. This document applies to the production and use of compound feeds for largemouth bass.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 5918 Determination of mixing uniformity of feed products

GB/T 6432 Determination of crude protein in feeds - Kjeldahl method

GB/T 6433 Determination of crude fat in feed

GB/T 6434 Determination of crude fiber content in feed

GB/T 6435 Determination of moisture in feed

GB/T 6437 Determination of total phosphorus in feeds - Spectrophotometric method

GB/T 6438 Determination of crude ash in feed

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB/T 8170 Rules for rounding off values and expression and determination of limit values

GB/T 10647 Terminology of feed industry GB 10648 Feed Label

GB 13078 Feed Hygiene Standard

GB/T 14699.1 Feed sampling

GB/T 18246 Determination of amino acids in feed

3 Terms and definitions

The terms and definitions defined in GB/T 10647 apply to this document.

4 Product Categories

The products are divided into fry feed, fingerling feed and adult fish feed according to the growth stage of largemouth bass. See Table 1 for product classification.