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

GB/T 22919.6-2024

Replacing GB/T 22919.6-2008

Aquatic feeds - Part 6: Formula feed for grouper

水产配合饲料 第6部分：石斑鱼配合饲料

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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 6 of GB/T 22919 "Compound feed for aquatic products". GB/T 22919 has published 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. This document replaces GB/T 22919.6-2008 "Aquatic feed Part

1 Scope

China's national standard for compound feed for grouper. It is Part 6 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. Grouper sits at the opposite end of the aquaculture spectrum from tilapia. It is a marine carnivore, it commands a high price, and it is farmed in cages and in recirculating systems where the feed cost dominates the economics and where uneaten feed pollutes the water the fish is living in. The species has a high protein requirement - substantially higher than any freshwater omnivore - and it needs that protein in a form it can use: a marine carnivore has a limited capacity to digest carbohydrate and to synthesise the long-chain polyunsaturated fatty acids that other fish make for themselves, so both the amino acid profile and the fatty acid composition are requirements rather than optimisations. The feed therefore rests on fishmeal and fish oil to a degree that a tilapia feed does not, and every attempt to substitute them is bounded by those two constraints. So the standard sets the crude protein and crude lipid by growth stage, the essential amino acids, the essential fatty acids including the long-chain forms, the ash and fibre ceilings, the moisture, and the pellet water stability, which for a species that feeds slowly and selectively determines both how much feed is eaten and how much of it goes into the water. The safety limits on mycotoxins, heavy metals and prohibited substances apply as they do throughout the series. Issued on 15 March 2024 and in force since 1 October 2024, it replaces GB/T 22919.6-2008.

This document defines the terms and definitions of grouper feed, gives product classification, and stipulates technical requirements, inspection rules, labeling, Packaging, transportation, storage and shelf life, and the corresponding sampling and testing methods are described. This document applies to the production and use of grouper feed.

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 and the following apply to this document.