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

GB/T 47228-2026

Replacing GB/T 15805.1-2008

Diagnostic methods for infectious pancreatic necrosis

传染性胰脏坏死病诊断方法

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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 15805.1-2008 "Fish Quarantine Methods Part

1.Infectious Pancreatic Necrosis Virus (IPNV)", and is consistent with... Compared with GB/T 15805.1-2008, apart from structural adjustments and editorial changes, the main technical changes are as follows:

---The reagents and materials have been changed (see Chapter 5, Chapter 3 of GB/T 15805.1-2008);

---The instruments and equipment have been modified (see Chapter 6, Chapter 4 of GB/T 15805.1-2008);

---Added clinical symptoms (see Chapter 7);

---The interpretation of neutralization test results has been revised (see 10.3, 6.3 of GB/T 15805.1-2008);

---RT-PCR detection has been added (see Chapter 12);

---Real-time fluorescent RT-PCR detection has been added (see Chapter 13);

---The overall judgment has been revised, and judgment methods for RT-PCR and real-time fluorescent RT-PCR have been added (see Chapter 14, GB/T 15805.1-). Chapter 8 (2008).

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). This document was drafted by: the National Fisheries Technology Extension Center, the Beijing Fisheries Technology Extension Station, and the Heilongjiang Fisheries Research Institute of the Chinese Academy of Fishery Sciences. Production Research Institute, Yueyang Yumeikang Biotechnology Co., Ltd. The main drafters of this document are. Xu Lipu, Zhang Wen, Feng Dongyue, Zhang Xiang, Lü Xiaonan, Xu Liming, Lu Tongyan, Pan Yong, Wang Jingbo, Wang Shu, and Cao Huan. Wang Xiaoliang, Wang Peng, Wang Ziyang, Liu Shaochun, Fan Junde. The release history of this document and the document it replaces is as follows:

---First published in.1995 as GB/T 15805.1-1995, and revised for the first time in.2008;
Diagnostic methods for infectious pancreatic necrosis

1 Scope

GB/T 47228-2026 is the Chinese national standard covering diagnosing IPN in salmonids - a birnavirus that kills fry and leaves survivors as lifelong carriers, detected by cell culture, by serology and by PCR. It replaces GB/T 15805.1-2008 and has been in force since 1 September 2026, with the *Aeromonas salmonicida* method GB/T 47226-2026. It was issued on 27 February 2026 and has been in force since 1 September 2026, replacing GB/T 15805.1-2008. The document is under the responsibility of the Ministry of Agriculture and Rural Affairs. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document describes the reagents and materials, instruments and equipment, clinical symptoms, samples, virus isolation, and neutralization tests used in the diagnosis of infectious pancreatic necrosis. Methods for testing, ELISA, RT-PCR detection, real-time fluorescent RT-PCR detection, and comprehensive judgment. This document applies to the epidemiological investigation, diagnosis, quarantine, and monitoring of infectious pancreatic necrosis in fish.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 18088 Sampling for entry-exit animal quarantine SC/T 7011.1 Terminology and Nomenclature Rules for Aquatic Animal Diseases Part

1. Terminology for Aquatic Animal Diseases SC/T 7103 Technical Specifications for Quarantine Sampling of Aquatic Animals at Origin

3 Terms and Definitions

The terms and definitions defined in SC/T 7011.1 apply to this document.

4 Abbreviations The following abbreviations apply to this document.

BF-

2. Bluegill Sunfish Cell Line CPE. Cytopathic effect Ct value. Threshold cycle number, which is the number of cycles the fluorescence signal takes to reach a set threshold. PG.

Pikegonadcelline Taq. Thermusaquaticus