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

GB/T 46753-2025

**Requirements for the collection, processing and preservation of
deep sea biological materials**

深海生物样本采集、处理和保藏要求

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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. 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 and is under the jurisdiction of the National Technical Committee on Standardization of Biosamples (SAC/TC559). This document was drafted by: Qingdao BGI Genomics Co., Ltd., Shanghai Jiao Tong University, Qingdao BGI Research Institute, and the Chinese Academy of Sciences. Institute of Deep-Sea Science and Engineering, Chinese Academy of Sciences; Shenzhen BGI Genomics Co., Ltd.; Third Institute of Oceanography, Ministry of Natural Resources; Southern Ocean Science and Technology Institute Guangdong Provincial Laboratory of Fisheries Science and Engineering (Guangzhou), Yellow Sea

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1 Scope

GB/T 46753-2025 is the Chinese national standard covering handling organisms brought up from the deep ocean - creatures that decompress and warm on the way to the surface, so the sampling, the immediate processing on deck and the preservation decide whether the material is usable for anything. First edition. It was issued on 2 December 2025 and has been in force since 1 April 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2025 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 specifies the procedures for the collection, preparation, preservation, transportation, storage, and handling of deep-sea biological samples (hereinafter referred to as "biological samples") and related data. Quality control requirements. This document applies to biological sample tissue organizations conducting deep-sea life science research.

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 17378.3-2007 Marine Monitoring Standard Part

3 Terms and Definitions

The terms and definitions defined in GB/T 37864-2019, as well as the following terms and definitions, apply to this document.

3.1 deep sea Marine areas with a depth of.200m or more.

3.2 biological materials Samples obtained from the deep sea, including biological samples, water samples, sediment samples, rock samples, etc., used for life science research, or derived from them. Any substance.

3.3 Collection The act of collecting biological samples and removing them from their original habitat.

3.4 Related data (associated data) Ancillary information about biological samples, including but not limited to research data, data obtained during biological sample collection and processing, and data generation. Data that describes time and information. [Source: GB/T 37864-2019, 3.3, with modifications]

4 General Requirements

4.1 The collection and processing of biological samples and related data shall comply with Section

4.3 and Chapter 7 of GB/T 37864-2019, and GB 17378.3-