

ICS 03.120.10
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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 27404-2008

**Criterion on quality control of laboratories - Chemical testing of
food
(English Translation)**

Issued on: May 4, 2008

Implemented on: October 1, 2008

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

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1 Scope

This Standard specifies the management requirements, technical requirements, process control requirements and quality assurance requirements for the quality control of food physical and chemical testing laboratories.

This Standard applies to the quality control of food physical and chemical testing laboratories engaged in the testing of food quality (including sensory, physical and chemical), chemical substances (including active ingredients, pesticide and veterinary drug residues, food additives, heavy metals, toxins, environmental pollutants, etc.).

Chemical testing laboratories in other fields can also refer to it.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 1.1, Directives for standardization -- Part 1: Rules for the structure and drafting of standardizing documents (GB/T 1.1-2000, ISO/IEC Directives, Part3,

1997, NEQ)

GB 8170, Rules of rounding off for numerical values and expression and judgement of limiting values

GB/T 15483.1, Proficiency testing by interlaboratory comparisons -- Part 1:

Development and operation of proficiency testing schemes (GB/T 15483.1-1999, idt ISO/IEC Guideline 43-1:1997)

GB/T 19000, Quality management systems -- Fundamentals and vocabulary (GB/T 19000-2000, idt ISO 9000:2000)

GB/T 20000.1, Guide for standardization -- Part 1: Standardization and related activities --

General vocabulary (GB/T 20000.1-2002, ISO/IEC Guide 2:1996,
MOD)

Laboratory quality control work associated with control analysis and subsequent necessary corrective activities.

4.1.1 The food physical and chemical testing laboratory (hereinafter referred to as the

laboratory) or its organization shall be an entity capable of assuming legal responsibility.

A non-independent legal entity shall have its status in the parent organization, and the above parent organization has promised not to interfere with its inspection work.

4.1.2 When the laboratory works in its fixed facilities or in other places outside the fixed facilities it is responsible for, including temporary or mobile facilities, it shall meet the relevant requirements of this Standard.

4.1.3 If the organization where the laboratory is located is also engaged in activities other than testing, in order to identify potential conflicts of interest, the responsibilities of key personnel involved in testing or having an impact on testing activities in the organization shall be defined.

4.1.4 Management personnel of laboratory shall be responsible for the planning, establishment, implementation, maintenance and improvement of the management system, including:

- a) Laboratory management and technical personnel shall have the necessary authority and resources to perform responsibilities including implementing, maintaining and improving the management system, identifying deviations from the management system or testing procedures, and taking measures to prevent or reduce these deviations.
- b) Measures are in place to ensure that laboratory management and laboratory personnel are free from any improper internal and external commercial, financial and other pressures and influences that adversely affect the quality of work.
- c) Establish client information confidentiality policies and procedures to protect client confidential information and proprietary rights, including procedures for securing electronic transmission and storage of results.
- d) Develop policies and procedures for impartiality education to personnel and avoid involvement in any activity that may diminish the credibility of their competence, impartiality, judgment, or operational integrity.
- e) Clarify the organization and management of the laboratory, its position in the parent organization, and the relationship between quality management, technical operations, and support services.

- f) Define the responsibilities, authorities and interrelationships of all management, operational and verification personnel who have an impact on the quality of testing.
- g) Personnel who are familiar with detection methods, procedures, objectives and result evaluation shall provide timely training and effective supervision to laboratory personnel according to their responsibilities, experience and ability.
- h) There are technical management personnel who are fully responsible for technical operations to ensure the resources required for the quality of laboratory operations.
- i) Appoint a person in charge of quality, grant him responsibility and authority, and ensure the operation and implementation of the management system. The quality manager shall report directly to management personnel of laboratory, who is responsible for determining laboratory policy and resource assurance.
- j) Designate an agent for key functions of the laboratory.
- k) Ensure that laboratory personnel understand the interrelationship and importance of their activities and how they can contribute to the achievement of the quality objectives of the management system.

4.1.5 The top management of the laboratory shall ensure that an appropriate communication mechanism is established within the laboratory to ensure the effective operation of the management system.

4.2 Management system

4.2.1

Laboratories shall establish, implement and maintain a management system commensurate with their scope of activities. Its policies, systems, procedures, plans and instructions shall be documented and communicated to all relevant personnel to ensure that these documents are understood, accessed and implemented.

4.2.2 The quality-related policies of the laboratory management system, including the

quality policy statement, shall be articulated in the quality manual. Overall objectives shall be established. The operational effectiveness shall be reviewed during management reviews. The top management of the laboratory shall publicize the quality policy, goals and commitments to all employees. This quality policy statement includes:

- a) Commitment by management personnel of laboratory to good professional conduct and quality of service;
- b) Statement from management personnel of laboratory regarding laboratory service standards;