

ICS 71.040.01

CCS N 04



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

GB/T 43865-2024

General rules for direct sampling mercury analysis method

直接进样测汞分析方法通则

Issued on: April 25, 2024

Implemented on: April 25, 2024

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Preface	III
1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Reagents and Materials	2
5 Instruments and Equipment	2
6 Sample	3
7 Analysis steps and methods	3
8 Report of analysis results	5
9 Environment and Safety	6
Appendix A (Informative) Instrument Reference Conditions	8
Appendix B (Normative) Method Performance Evaluation	10

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:

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 by the Ministry of Science and Technology of the People's Republic of China:

This document is under the jurisdiction of the National Technical Committee for Standardization of Instrumental Analysis and Testing (SAC/TC481):

This document was drafted by: Institute of Agricultural Quality Standards and Testing Technology, Chinese Academy of Agricultural Sciences, Agricultural Quality Standards and Testing Technology, Guangdong Academy of Agricultural Sciences Institute of Standards and Monitoring Technology, Yunnan Huace Testing and Certification Co., Ltd., Guangdong Academy of Sciences Testing and Analysis Institute (Guangzhou Analytical Testing Center), Beijing Haiguang Instrument Co., Ltd., Beijing Labtech Instrument Co., Ltd., Changsha Kaiyuan Hongsheng Technology Co., Ltd., Beijing Ji Tian Instrument Co., Ltd., Beijing Lumei Instrument Equipment Co., Ltd., Tsinghua University, Central China Normal University, Agricultural Product Quality and Safety Administration of the Ministry of

Agriculture and Rural Affairs Full supervision, inspection and testing center:

The main drafters of this document are: Mao Xuefei, Wang Xu, Li Xue, Guo Pengran, Xing Zhi, Meng Fansheng, Yang Yunhua, Yin Jianzhen, Feng Li, Shi Chao, Zhang Chao, Guo Yanbing, Lin Jianqi, Fan Bowen, Pan Jiachuan, Qi Yuehan, Liu Tengteng, Lü Zhaohui, Lei Yajie:

General principles for the analysis of mercury by direct injection

1 Scope

This document establishes general rules for quantitative analysis using the direct injection mercury method:

This document applies to the quantitative analysis of mercury in solid and liquid samples that can be directly injected:

2 Normative references

GB/T 602

GB/T 622

GB/T 626

GB/T 638

GB/T 642

GB/T 4842

GB/T 6379

GB/T 6379

GB/T 6682

GB/T 8979

GB/T 13966

GB/T 14599

GB/T 27411

GB/T 27415

3 Terms and definitions

The terms and definitions defined in GB/T 13966 and GB/T 27411 and the following apply to this document: 3:1 The mercury in the sample is introduced and atomized by chemical

reduction or thermal desorption, and is enriched with amalgam or brought directly into the detector via carrier gas:

Special instrument for measuring mercury:

Note: Mercury analyzer is used to measure the atomic absorption signal at a wavelength of 253.7 nm, or the atomic fluorescence signal generated by mercury lamp excitation, or other observable Signal:

chinastandards.org - PREVIEW