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

中华人民共和国国家标准

GB/T 5009.14-2003

Replace GB/T 5009-1996

Determination of Zinc in Foods

食品中锌的测定

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Standardization Administration of the People's Republic of China**

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Foreword

This Standard replaces GB/T 5009.14-1996 *Method for Determination of Zinc in Foods*.

Compared with GB/T 5009.14-1996, this Standard is modified as follow:

—Modified the Chinese name, and the Chinese name is modified to *Determination of Zinc in Foods*;

—The structure of the original standard is modified according to GB/T 20001.4-2001 *Rules for Drafting Standards-Part 4: Methods of Chemical Analysis*.

The Standard is proposed by and under the jurisdiction of Ministry of Health of the People's Republic of China.

The responsible drafting organizations of the first method of this Standard are Guizhou Provincial Sanitation and Antiepidemic Station, Guangxi Zhuang Autonomous Region Sanitation and Antiepidemic Station.

The responsible drafting organizations of the second method of this Standard are Hunan Provincial Sanitation and Antiepidemic Station, Tianjin Sanitation and Antiepidemic Station.

The responsible drafting organizations of the third method of this Standard is Guangxi Zhuang Autonomous Region Sanitation and Antiepidemic Station.

This Standard was first issued in 1985, first revised in 1996 and this is the second revised version.

Determination of Zinc in Foods

1 Scope

This Standard specifies the determination method of Zinc in foods.

This Standard applies to the determination of Zinc in foods.

Detection limit of this Method: Atomic absorption method is 0.4mg/kg; Dithizone colorimetry is 2.5 mg/kg.

2 Normative References

The articles contained in the following documents have become this Standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. However, parties to agreements based on this Standard are encouraged to discuss whether the latest version of those documents can apply. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 5009.11-2003 Determination of Total Arsenic and Inorganic Arsenic in Foods

The First Method Atomic Absorption Spectroscopy

3 Principle

After processing of the test sample, input it to atomic absorption spectrophotometer. After it is atomized, absorb 213.8nm resonance line, with the absorption value in direction proportion to zinc content, and compare quantity with standard series.

4 Reagent

4.1 4-methylpentanone-2 (MIBK, also called methylisobutylketone).

4.2 Phosphoric acid (1+10).

4.3 Hydrochloric acid (1+11). Weigh and take 10mL hydrochloric acid, add to proper water and dilute to 120mL.

4.4 Mixed acid: Nitric acid + perchloric acid (3+1).

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