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

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GB/T 5009.210-2008

Determination of pantothenic acid in foods

食品中泛酸的测定

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Foreword

This standard revised and adopted AOAC 945.74 *Pantothenic acid in vitamin preparations* from AOAC INTERNATIONAL.

Comparison with AOAC 945.74, main differences of this standard are as follows:

- Changed the sample extraction procedure;
- Added the enzymolysis treatment for sample;
- Extended the application range.

Annex A of this standard is informative annex.

This Standard is proposed and under the jurisdiction of the Ministry of Health (MOH) of the People's Republic of China.

This Standard is interpreted by Ministry of Health (MOH) of the People's Republic of China.

Chief draft units of this standard: Nutrition and Food Safety; Chinese Center for Disease Control and Prevention, Liaoning Center for Disease Control and Prevention, Zhejiang Academy of Medical Sciences and Beijing Research Institute of Nutrition.

Chief drafters of this standard: Wang Zhu, Yang Jingming, Zhang Xu, Ma Jinghong, Tang Liang, Tang Huacheng and Wang Kecheng.

Determination of pantothenic acid in foods

1 Scope

This standard specifies the determination method of pantothenic acid in foods.

This standard applies to the determination of pantothenic acid in foods.

The detection limit of this standard: As for foods, when sample quantity is 5g, the detection limit is 250 μ g/100g; as for nutrient supplements, when sample quantity is 1g, the detection limit is 200 μ g/100g.

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. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 6682 Water for analytical laboratory use - Specification and test methods (GB/T 6682-2008, ISO 3696: 1987, MOD)

3 Principle

Pantothenic acid is the necessary nutrients for the growth of *Lactobacillus plantarum* (ATCC 8014); under certain control conditions, there is a linear relation between the growth response of *Lactobacillus plantarum* and the pantothenic acid content in the culture medium. Determine the turbidity of the sample solution after bacteria proliferation in the turbidimetry method; calculate the content of pantothenic acid in sample solution by comparing it with standard curve.

4 Reagents

Unless otherwise stated, reagents used are analytically pure and experiment water is grade II specified in GB/T 6682.

4.1 Glacial acetic acid (C₂H₄O₂).

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