



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

中华人民共和国国家标准

GB 5413.13-2010

**National food safety standard
Determination of vitamin B₆ in foods for infants and
young children, milk and milk products**

食品安全国家标准

婴幼儿食品和乳品中维生素 B₆ 的测定

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Foreword

This standard will replace GB/T 5413.13 - 1997 *Milk powder and formula foods for infant and young children-Determination of vitamin B₆ content*.

Comparison with GB/T 5413.13-1997, main changes of this Standard are as follows:

- Changed the title as *Determination of vitamin B₆ content*;
- Improved the calculation of vitamin B₆ content.

Annex A of this Standard is informative.

The versions replaced by this standard are:

- GB 5413 - 1985, GB/T 5413.13- 1997.

National food safety standard

Determination of vitamin B₆ in foods for infants and young children, milk and milk products

1. Scope

This standard provides for Determination of Vitamin B₆ in Infant Foods and Dairy Products.

This standard applies to the Determination of Vitamin B₆ in Infant Foods and Dairy Products.

2. Normative References

The normative documents referenced in the text are indispensable to the application of this standard. For dated references, only the edition bearing such date applies to this standard. For undated references, the latest edition of the normative document referred to (including all the amendments) applies.

3. Principles

After extracted with hot water, etc. sample is separated by C₁₈ chromatogram column and determined with a fluorescence detector and measured Vitamin B₆ (pyridoxine, pyridoxal, and pyridoxamine) content by external standard method.

4. Reagents and materials

If no special illumination, all reagents mentioned in this method are AR grade and water is regulated in GB/T 6682.

4.1 Amylase: enzymatic activity ≥ 1.5 U/mg

4.2 Octane sulfonate: GR

4.3 Galacial acetic acid: GR

4.4 Anhydrous methanol: chromatography

4.5 Triethylamine: chromatography

4.6 HCL solution: Conc. 5.0mol/L,0.1mol/L

4.7 NaOH solution: Conc. 5.0mol/L,0.1mol/L

4.8 Standard Solution

4.8.1 Vitamin B₆ (pyridoxine, pyridoxal, pyridoxamine) stock standard solution, Conc. 1mg/ml: Accurately weigh about 0.05g Vitamin B₆ standard substance to 50mL volumetric flask,

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