



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

中华人民共和国国家标准

GB 5413.3-2010

**National food safety standard
Determination of fat 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脂肪的测定

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Foreword

This standard replaces the determination of fat under GB/T 5009.46-2003 *Method of analysis of hygienic standard of milk and milk products*, the determination of fat under GB/T 5409-85 *Analytical method for milk*, the determination of fat under GB/T 5416-85 *Analytical method for butter* and GB/T 5413.3- 1997 *Milk powder and formula foods for infant and young children-determination of fat*.

Appendix A is informative.

The previous editions to be replaced by this standard:

- GB/T 5409-85
- GB/T 5413.3 – 1997
- GB/T 5416- 85
- GB/T 5009.46-1985, GB/T 5009.46-1996, GB/T 5009.46-2003

National food safety standard

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

1. Scope

This standard is applicable for the determination of fat in pasteurized milk, UHT milk, raw milk, fermented milk, modified milk, milk powder, evaporated milk, sweetened condensed milk and formulated condensed milk, cream butter and anhydrous milkfat, cheese, processed cheese and infant formula.

Method 1 in this standard is applicable for pasteurized milk, UHT milk, raw milk, fermented milk, modified milk, milk powder, evaporated milk, sweetened condensed milk and formulated condensed milk, cream butter and anhydrous milkfat, cheese, processed cheese and infant formula.

Method 2 in this standard is applicable for pasteurized milk, UHT milk and raw milk.

2. Normative references

The normative documents are indispensable to this standard. For dated reference, only the dated reference apply. For undated references, the latest edition of the normative documents referred to applies.

Method I

3. Principle

Extraction sample ethanol-ammonia solution by diethyl-ether and petroleum ether, distillation or evaporation, determine the mass of extraction in ether.

4. Reagents and materials

All reagents, if not specified, are A.R; all water, if not specify, are third class water as classified in GB/T 6682.

4.1 Amylase: enzyme activity ≥ 1.5 U/mg

4.2 Ammonia solution (NH₄OH): 25% (w/V)

Note: Higher concentration of ammonia solution allowed.

4.3 Ethanol (C₂H₅OH): Minimum 95% (v/v)

4.4 Aether (C₄H₁₀O): Does not contain peroxide, antioxidant and meet the request for testing.



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