



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

GB 5413.39-2010

**National food safety standard -- Determination of nonfat total
milk solids in milk and milk products**

(English Translation)

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Foreword

This Standard replaced GB 5409-85 Test Method of Milk, and GB/T 5416-85 Analytical Method for Butter.

The historical editions replaced by this Standard are as follows.

--- GB/T 5049-85;

--- GB/T 5416-85.

National Food Safety Standard - Determination of
Nonfat Total Milk Solids in Milk and Milk Products

1 Scope

This Standard specifies the determination of nonfat milk solids in raw milk, pasteurized milk, sterilized milk, prepared milk and fermented milk.

This Standard is applicable to the determination of nonfat milk solids in raw milk, pasteurized milk, sterilized milk, prepared milk and fermented milk.

2 Normative References

The following documents are essential to the application of this Standard. For the dated documents, only the versions with the dates indicated are applicable to this Standard; for the undated documents, only the latest version (including all the amendments) are

applicable to this Standard.

3 Principle

Firstly, separately determine the total solid content and fat content (if adding the non-dairy ingredients such as saccharose, it shall also be deducted) in the milk and milk products.

4 Reagents and Materials

Unless otherwise specified, the used reagents in this method are analytical reagents; while the used water is Class-III water specified in GB/T 6682.

4.1 Flat-bottomed box. 20mm~25mm-height, 50mm~70mm-diameter stainless steel or

aluminum box with a stopper, or glass weighing bottle.

4.3 Quartz sand or sea-sand. it can pass through a sieve with a pore size of 500 μ m,

cannot pass through a sieve with a pore size of 180 μ m; and take the following applicability test.

6.1 Determination of total solids

Add 20g of quartz sand or sea-sand (4.3) to the flat-bottomed box (4.1); dry it in a drying oven at 100°C $\pm$ 2°C for 2h; place it into the desiccator to cool off for 0.5h; weigh it; repeat the drying till it is constant weight.

7 Expression of Analytical Results

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