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NATIONAL STANDARD OF
THE PEOPLE'S REPUBLIC OF CHINA

GB 31638-2016

National Food Safety Standard - Casein

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National Food Safety Standard - Casein

1 Scope

This Standard applies to acid casein, enzymatic casein and membrane separation casein.

2 Terms and definitions

2.1 Casein

the product made from acid and enzymatic or membrane separation processes using milk and/or dairy product as raw materials; it is a mixture of α , β , κ and γ and its subtypes

2.2 Acid casein

the product made from degreasing, acidifying to make casein precipitate then through filtration, washing, drying and other processes using milk and/or dairy product as raw materials

2.3 Enzyme casein

the product made from degreasing, rennet to make casein precipitate then through filtration, washing, drying and other processes using milk and/or dairy product as raw materials

2.4 Membrane separation casein

the product made from degreasing, membrane separating casein then through concentration, sterilization, drying and other processes using milk and/or dairy product as raw materials

3 Technical requirements

3.1 Raw material requirements

The raw material shall comply with the provisions of corresponding standards and/or regulations.

3.2 Sensory requirements

The sensory requirements shall comply with Table 1.

Annex A

Determination of casein

A.1 Principle

After the sample is sufficiently dissolved, the pH shall be adjusted to 4.6 with acetic acid and sodium acetate solution so as to precipitate casein. Filter to collect casein. The followings are same with the determination principle of Method One or Method Two in GB 5009.5.

A.2 Reagents and materials

Unless otherwise stated, the reagents used in this method are of analytical grade and water is of grade three specified in GB/T 6682.

A.2.1 Sodium bicarbonate (NaHCO_3).

A.2.2 Sodium tripolyphosphate ($\text{Na}_5\text{P}_3\text{O}_{10}$).

A.2.3 Glacial acetic acid (CH_3COOH): excellent grade pure.

A.2.4 Sodium acetate ($\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$).

A.2.5 Anhydrous sodium acetate (CH_3COONa).

A.2.6 10% acetic acid solution: pipet 10 mL of glacial acetic acid (A.2.3) in a 100 mL volumetric flask, add water to set volume.

A.2.7 Sodium acetate solution (1 mol/L): weigh 41 g of anhydrous sodium acetate (A.2.5) or 68 g of sodium acetate (A.2.4), add water to dissolve and dilute to 500 mL.

A.2.8 Sodium acetate - acetic acid buffer solution: respectively pipet 1.0 mL of sodium acetate solution (A.2.7) and 1.0 mL of acetic acid solution (A.2.6) in a 100 mL volumetric flask, add water to set volume.

A.2.9 The rest are same with reagents and materials in GB 5009.5.

A.3 Instruments and equipment

Same with instruments and equipment in GB 5009.5.

A.4 Analysis steps

A.4.1 Sample processing

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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