



GB 5009.299-2024

National Food Safety Standard

Determination of Lactoferrin in Food

食品安全国家标准 食品中乳铁蛋白的测定

National Health Commission of the People's
Republic of China
State Administration for Market Regulation

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Determination of Lactoferrin in Food

1 Scope

This standard specifies the high performance liquid chromatography method for the determination of lactoferrin in foods.

This standard applies to the determination of bovine lactoferrin content in pasteurized milk, formulated milk, milk-containing beverages, formulated milk powder and milk-based infant formula.

This standard is not applicable to the determination of bovine lactoferrin in flavored fermented milk and soy-based infant formula.

2 Principle

The bovine lactoferrin in the sample was extracted with phosphate buffer, enriched and purified with a heparin affinity column, separated with a reversed-phase high performance liquid chromatography column, detected with an ultraviolet detector at 280 nm, and quantified with the external standard method.

3 Reagents and materials

Unless otherwise specified, all reagents used in this method were of analytical grade and the water was Grade 1 water as specified in GB/T 6682.

3.1 Reagents

3.1.1 Acetonitrile (CH_3CN): chromatographically pure.

3.1.2 Trifluoroacetic acid ($\text{CF}_3\text{CO}_2\text{H}$): chromatographically pure.

3.1.3 Sodium chloride (NaCl).

3.1.4 Phosphoric acid (H_3PO_4).

3.1.5 Disodium hydrogen phosphate (Na_2HPO_4).



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