



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

中华人民共和国国家标准

GB 5413.29-2010

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

食品安全国家标准

婴幼儿食品和乳品溶解性的测定

Issued on Mar 26, 2010

Implemented on Jun 01, 2010

Issued by the Ministry of Health of P.R of China

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Foreword

Two methods have been given for testing in GB, one is "insolubility index" determination, which using global standard - IDF129A:1988; the other is "solubility" method.

GB/T 5413.29-1997 has been replaced by the new standard above.

Versions of standard substituted by this standard are:

— GB 5413-1985, GB/T 5413.29-1997.

National food safety standard

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

1. Scope

The standard contains two testing methods, which is the "insolubility index" (Method 1) and "solubility"(Method 2).

Method 1 fits the determination of insolubility index in milk powder with no soybean, Determination of solubility in foods and raw milk for infants and young children is adapted to Method 2.

Method One The Determination of insolubility index in milk powder

2. Terms and definitions

Insolubility index

According to the standard, Regress the milk powder or its related products, then put into the centrifuge before recording the volume of the sediment.

3. Principle

To sample, 24 or 50 °C water was added, then technical beater was used to regress, in still a moment then centrifuged with quite volume regressed milk for several minutes. The supernatant was abandoned, followed the same temperature water (24 or 50 °C) was added again to mix and solve the sediment and to have another centrifuge process before noting the bulk of the sediment.

Note: 24°C water was used to reconstitute the products in spray drying, and 50 °C water in roller drying.

4. Reagents and materials

Unless additionally specified, the reagents used by this method are GR, and water is the third grade water specified by GB/T6682.

4.1 Silicone defoamer: contains 30% silicone emulsifier.

According to the steps in Clause 6.4.5 (No Sample Added) , Less than 0.01mL silicone residue could be detected from the bottom of centrifuge tube.

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