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Report Name: Updated National Food Safety Standard for Milk Powder and

Modified Milk Powder

Country: China - People's Republic of

Post: Beijing

Report Category: Dairy and Products, FAIRS Subject Report, Sanitary/Phytosanitary/Food Safety

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## **Report Highlights:**

On March 12, 2024, the People's Republic of China (PRC) National Health Commission (NHC) and State Administration for Market Regulation (SAMR) jointly published 47 new or updated national food safety standards and six amendments. The newly released standards include an updated National Food Safety Standard for Milk Powder and Modified Milk Powder. This report provides an unofficial translation of the updated standard. Stakeholders should conduct their own review of the regulation.

# **Summary:**

On March 12, 2024, the People's Republic of China (PRC) National Health Commission (NHC) and State Administration for Market Regulation (SAMR) announced <u>47 new or updated national food safety standards and six amendments (link in Chinese)</u>, including the updated National Food Safety Standard for Milk Powder and Modified Milk Powder (GB19644-2024).

The updated National Food Safety Standard for Milk Powder and Modified Milk Powder will enter into force on February 8, 2025, and will replace the current standard of National Food Safety Standard for Milk Powder (GB19644-2010) (link in Chinese). The finalized standard GB19644-2024 applies to milk powder (including whole milk powder, skimmed powder, and semi-skimmed powder) and modified milk.

The major changes of the finalized standard from the current standard include:

- changing the name of the standard from "Milk Powder" to "Milk Powder and Modified Milk Powder;"
- adding more varieties of raw milk ingredients instead of only cow and goat milk;
- deleting microbial limits for Staphylococcus aureus and Salmonella; and
- adding labeling requirements.

China notified the draft National Food Safety Standard for Milk Powder to WTO under G/SPS/N/CHN/1160 on May 12, 2020, the draft National Food Safety Standard for Milk Powder and Modified Milk Powder under G/SPS/N/CHN/1160/Add.1 on June 2, 2023, and the draft National Food Safety Standard for Modified Milk under G/SPS/N/CHN/1287 on October 25, 2023.

This report provides an unofficial translation of the final standard. Stakeholders should conduct their own review of the regulation.

#### **BEGIN UNOFFICIAL TRANSLATION**

# National Food Safety Standard Milk Powder and Modified Milk Powder

#### **Preface**

This standard replaces GB 19644-2010 "National Food Safety Standard Milk Powder." Compared with GB 19644-2010, the major changes contained in this standard are as below:

- The name of the standard is revised.
- The normative reference documents are deleted.
- The terms and definitions are revised.
- The sensory requirements are revised.
- The physical and chemical indicators are revised.
- The microbial limits are revised.
- The technical requirements for yak milk powder, camel milk powder, donkey milk powder, and horse milk powder are added.

### 1. Scope

This standard applies to milk powder (whole, skimmed, and semi-skimmed) and modified milk powder.

#### 2. Terms and Definitions

#### 2.1 Milk powder

A powdered product made from raw milk of a single variety through processing.

## 2.2 Modified milk powder

A powdered product with no less than 70% dairy solid content of the main ingredient, which is made from raw milk of a single variety and/or processed products of whole milk (or skimmed and semi-skimmed) and one or more of other raw materials (excluding whole, skimmed, semi-skimmed milk of other varieties), food additives, and nutrition enhancers are added, through processing.

# 3. Technical Requirements

## 3.1 Requirements on raw materials

- 3.1.1 Raw milk shall conform to GB 19301.
- 3.1.2 Other ingredients shall conform to corresponding food safety standards and relevant regulations.

# 3.2 Sensory requirements: shall conform to requirements listed in Table 1.

**Table 1: Sensory Requirements** 

Item	Requirements		Testing Mathed	
	Milk powder	Modified milk powder	Testing Method	
I Olor	Uniform milky white	With proper soler	Take the appropriate amount of	
	or milky yellow	With proper color	samples and place them in a dry and	
Haste and aroma	With pure milk flavor	With proper taste and	clean white plate (porcelain plate or	
	and aroma	aroma	similar container), observe the color	
State			and texture state under natural light.	
			After mixing, smell and rinse mouth	
	, -		with warm water, and taste the samples.	

# 3.3 Physical and chemical indexes: shall conform to the provisions in Table 2.

**Table 2: Physical and Chemical Indexes** 

	Item	Index	Testing Method	
	Cow Milk powder	34% of non-fat dairy solids <sup>a</sup>		
	Modified cow milk powder	16.5	GB 5009.5	
	Goat milk powder	34% of non-fat dairy solids <sup>a</sup>		
	Modified goat milk powder	16.5		
	Yak milk powder	39% of non-fat dairy solids <sup>a</sup>		
Protein /(g/100g) ≥	Modified yak milk powder	18.6		
	Camel milk powder	36% of non-fat dairy solids <sup>a</sup>		
	Modified camel milk powder	16.8		
	Donkey milk powder	18% of non-fat dairy solids <sup>a</sup>		
	Modified donkey milk powder	11.0		
	Horse milk powder	18% of non-fat dairy solids <sup>a</sup>	]	
	Modified horse milk powder	11.5	1	
Fat <sup>b</sup> /(g/100g) ≥	Milk powder	26.0		
	Goat milk powder	26.0	GB 5009.6	
	Yak milk powder	33.0		
	Camel milk powder	28.0		
	Donkey milk powder	2.5		
	Horse milk powder	10.0		
	Cow Milk powder	≤18		
A : 1:4 C	Goat milk powder	7 <b>~</b> 14	GB 5009.239	
Acidity of reconstituted milk/	Yak milk powder	12.5 ~18		
(°T)	Camel milk powder	≤24		
	Donkey milk powder	≤6		
	Horse milk powder	≤10		
Impurity /(mg/kg)	Milk powder	≤16	GB 5413.30	
Water content /(g/100	)g) ≤	5.0	GB 5009.3	
	(%) = 100% - fat (%) - water (%).			
b Only applicable to y				

<sup>&</sup>lt;sup>b</sup> Only applicable to whole milk powder.

## 3.4 Limits for contaminants and mycotoxin

- 3.4.1 Limits for contaminants shall conform to GB 2762.
- 3.4.2 Limits for mycotoxin shall conform to GB 2761.

#### 3.5 Microbial limits

- 3.5.1 Limits for pathogenic bacteria shall conform to GB 29921.
- 3.5.2 Microbial limits shall also comply with the provisions of table 3.

**Table 3: Microbial Limits** 

Item	Sampling Plan <sup>a</sup> and Limit			Tagting Mathad	
	n	c	m	M	Testing Method
Total plate count b/ (CFU/g)	5	2	$5.0x10^4$	$2.0x10^5$	GB 4789.2
Coliform / (CFU/g)	5	1	10	100	GB 4789.3

<sup>&</sup>lt;sup>a</sup> Sampling and processing of samples shall be carried out according to GB 4789.1 and GB 4789.18.

#### 3.6 Food Additives and Nutrition Fortifiers

- 3.6.1 The use of food additives shall conform to GB 2760.
- 3.6.2 The use of food nutrition fortifiers shall conform to GB 14880.

#### 4. Other

- **4.1** Products shall be marked with "milk powder" or "modified milk powder."
- **4.2** Cow milk powder can be identified as "milk powder" or "powdered milk." Milk powder from other animal sources shall be marked with animal varieties, such as "goat milk powder" or "powdered goat milk."
- **4.3** Modified cow milk powder can be identified as "modified milk powder" or "modified powdered milk." Modified milk powder from other animal sources shall be marked with animal varieties, such as "modified goat milk powder" or "modified powdered goat milk."

### **END OF TRANSLATION**

#### **Attachments:**

No Attachments.

<sup>&</sup>lt;sup>b</sup> Not applicable to products added with active bacteria (aerobic and facultative anaerobic probiotics) [if live bacteria are added, the number of live bacteria in the product shall be  $\geq 10^6$ CFU/g.]