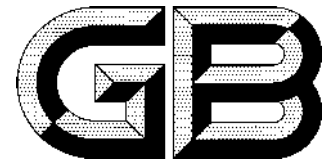


GB 29921-2021



**National standards of the People's Republic  
of China**

**29921-2021**

**National standards for food safety  
Pathogenic Microorganism Limits in Prepacked Foodstuffs**

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by the State Administration for Market Regulation

### **Foreword**

The Standard replaces GB 29921-2013 National Food Safety Standard Pathogenic Microorganism Limits in Food.

Compared with GB 29921-2013, the major changes contained in the standard are as below:

- The name of the Standard is revised;
- The description of “scope” is revised;
- The description of “applicable principles” is revised;
- Requirements on limits of pathogenic microorganism in dairy products and foods for special dietary uses are added.;
- Part of content in “Table 1 Standard of Pathogenic Microorganism Limits in Pre-packaged Foods” is revised;
- “Appendix A Description of Food Categories (Names)” is added

## **National Food Safety Standard**

### **Pathogenic Microorganism Limits in Prepackaged Food**

#### **1 Scope**

The Standard specifies indexes, limit requirements and test methods for pathogenic microorganism in prepackaged foods.

The Standard applies to prepackaged foods but not to foods subject to commercial sterility requirements, packaged drinking waters and drinking-day natural mineral water.

#### **2 Principles of Application**

2.1 Food producers, processors and operators shall take control measures to reduce the level of pathogenic microorganism content in foods and possibility of resulting in risks as possible, no matter whether limits of pathogenic microorganism are provided or not.

2.2 Food categories in Table 1 and Appendix A - Description of Food Categories (Names) are used to define the applicable scope of limits of pathogenic microorganism.

2.3 Sampling plans are subject to provisions in GB 4789.1.  $n$  is the number of products shall be collected in a same batch of products,  $m$  the acceptable limit value for pathogenic microorganism index (grade III sampling plan) or the highest safety limit level (grade II sampling),  $M$  the highest safety limit value for pathogenic microorganism index.

#### **3 Index Requirements**

For Pathogenic Microorganism Limits in Prepackaged Food, see Table 1.

**Table 1 Pathogenic Microorganism Limits in Prepackaged Food**

Food category	Index of pathogenic microorganism	Sampling plan and limits (if not specified, in 25 g or 25 ml)				Test method	Notes
		n	C	M	M		
Dairy products	Salmonella.	5	0	0	-	GB 4789. 4	-
	Staphylococcus aureus	5	0	0	-	GB 4789. 10	Only applicable to pasteurized milk, modified milk, fermented milk, sweetened condensed milk and reconstituted sweetened condensed milk
		5	2	100 CFU/g	1000 CFU/g		Only applicable to cheese, processed cheese and cheese products.
		5	2	10 CFU/g	100 CFU/g		Only applicable to milk powder and reconstituted milk powder.
	Listeria monocytogenes	5	0	0	-	GB 4789. 30	Only applicable to cheese, processed cheese and cheese products.
Meat products	Salmonella.	5	0	0	-	GB 4789. 4	-
	Listeria monocytogenes	5	0	0	-	GB 4789. 30	
	Staphylococcus aureus	5	1	100 CFU/g	1000 CFU/g	GB 4789. 10	
	Diarrheagenic Escherichia coli	5	0	0	-	GB 4789. 6	Only applicable to beef products, ready-to-eat raw meat products and fermented
Aquatic products	Salmonella.	5	0	0	-	GB 4789. 4	Only applicable to ready-to-eat raw aquatic animal products
	Vibrio parahaemolyticus	5	1	100 MPN/g	1000 MPN/g	GB 4789. 7	
	Listeria monocytogenes	5	0	100 CFU/g	-	GB 4789. 30	
Ready-to-eat egg products	Salmonella	5	0	0	-	GB 4789. 4	-
Grain products	Salmonella.	5	0	0	-	GB 4789. 4	-
	Staphylococcus aureus	5	1	100 CFU/g	1000 CFU/g	GB 4789. 10	
Ready-to-eat soy products	Salmonella.	5	0	0	-	GB 4789. 4	-
	Staphylococcus aureus	5	1	100 CFU/g(mL)	1000 CFU/g(mL)	GB 4789. 10	

**Table 1 (continued)**

Food category	Index of pathogenic microorganism	Sampling plan and limits (if not specified, in 25 g or 25 mL)				Test method	Notes
		n	c	m	M		
Chocolate and cocoa products	Salmonella.	5	0	0	-	GB 4789. 4	-
Ready-to-food fruit and vegetable products	Salmonella.	5	0	0	-	GB 4789. 4	-
	Staphylococcus aureus	5	1	100 CFU/g(mL)	1000 CFU/g(mL)	GB 4789. 10	
	Listeria monocytogenes	5	0	0	-	GB 4789. 30	Only applicable to peeled or pre-cut fruit and vegetables and mixtures of those categories
	Diarrheagenic Escherichia coli	5	0	0	-	GB 4789. 6	
Drinks	Salmonella.	5	0	0	-	GB 4789. 4	-
Frozen drinks.	Salmonella.	5	0	0	-	GB 4789. 4	-
	Staphylococcus aureus	5	1	100 CFU/g(mL)	1000 CFU/g(mL)	GB 4789. 10	
	Listeria monocytogenes	5	0	0	-	GB 4789. 30	
Ready-to-eat condiments	Salmonella.	5	0	0	-	GB 4789. 4	-
	Staphylococcus aureus	5	1	100 CFU/g(mL)	1000 CFU/g(mL)	GB 4789. 10	
	Vibrio parahaemolyticus	5	1	100 MPN/g (mL)	1000 MPN/g (mL)	GB 4789. 7	Only applicable to aquatic condiments.
Nuts and seed products	Salmonella.	5	0	0	-	GB 4789. 4	-
Foods for special dietary uses	Salmonella.	5	0	0	-	GB 4789. 4	-
	Staphylococcus aureus	5	2	10 CFU/g(mL)	100 CFU/g(mL)	GB 4789. 10	
	Cronobacter spp (Enterobacter sakazakii)	3	0	0/100 g	-	GB 4789. 40	Only applicable to infant formulas (0-6 months) and infant formula for special medical purposes

\* Reissued for technical reasons. In the table, "m=0/25 g or 25 mL or 100 g" represents "not detectable per 25 g or 25 mL or 100 g".

## Appendix A Description of Food Categories (Names)

A.1 For food categories (names), see Table A.1.

Table A.1 Description of Food Categories (Names)

Dairy products	Pasteurized milk
	Modified milk
	Fermented milk
	Concentrated dairy products
	Milk powder
	Whey powder and whey protein powder
	Light cream, cream, anhydrous milk fat
	Cheese, processed cheese
	Casein
	Other dairy products (except concentrated milk for the food industry that is not heat-treated during processing)
Meat products	Cooked meat products Thick gravy cooked meat Smoked, roasted, grilled meat Fried meat Cooked ham Sausage Fermented meat products Dried cooked meat products Other cooked meat products
	Ready-to-eat raw meat products
Aquatic products	Cooked aquatic animal products Dry cooked aquatic products Cooked aquatic products Smoked and roasted aquatic products Fermented aquatic products Other cooked aquatic products
	Ready-to-eat raw animal aquatic products
	Ready-to-eat algae products
	Other ready-to-eat aquatic products
Ready-to-eat egg products	Processed eggs
	Other egg products

Grain products	Baked goods
	Reconstituted cereal products
	Cooked starch products
	Cooked gluten products
	Cooked rice and wheat products Rice and wheat products with fillings Rice and wheat products without fillings
	Puffed grain products
	Other cooked grain products
Ready-to-eat soy products	Non-fermented soy products
	Fermented soy products
	Soybean protein products
Chocolate and cocoa products	Chocolate and chocolate products
	Cocoa butter substitute chocolate and cocoa butter substitute chocolate products
	Cocoa products (except cocoa butter)
Ready-to-eat fruit and vegetable products	Fruit products Peeled or pre-cut fruit Dried fruit Fruit processed with vinegar, oil, or salt Fruit jam (paste) Candied fruits Fermented fruit products Boiled or fried fruits Fruit dessert Other ready-to-eat fruit products
	Vegetable products Peeled or pre-cut vegetables Pickled vegetable Vegetable puree Boiled or fried vegetables Other instant processed vegetables
	Edible fungi and their products
Drinks	Fruit and vegetable juice and beverages
	Protein containing drinks
	Tea drinks
	Coffee drinks
	Plant-origin drinks
	Flavored drinks
	Drinks for special purpose
	Other drinks (Except carbonated beverages)

Frozen drinks	Ice creams
	Ice cream bars
	Slush
	Popsicles
	Flavored ice
	Edible ice
	Other frozen drinks
Ready-to-eat condiments	Soy sauce
	Sauce and sauce products
	Spices
	Aquatic condiments
	Compound condiments
	Other ready-to-eat condiments (except vinegar)
Nuts and seeds products	Nuts and seeds paste (butter)
	Other ready-to-eat nuts and seed products (except roasted, fried, and puffed cooked nuts and seeds)
Foods for special dietary use	Infant formula
	Formula for older infants and young children
	Complementary foods for infants and young children
	Infant formula for special medical purposes
	Formula for special medical purposes
	Other foods for special dietary uses