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GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

GB 2762-2012

National Food Safety Standard Maximum Levels of Contaminants in Foods

食品安全国家标准

食品中污染物限量

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Table of Contents

Foreword	3
1 Scope	4
2 Terms and Definitions	4
3 Application Principle	5
4 Index Requirements	5
Appendix A	15

Foreword

This Standard partially replaces GB 2762-2005 “*Maximum Levels of Contaminants in Foods*”.

Compared with GB 2762-2005, the main changes in this Standard are as follows:

- The standard name was modified;
- The definition of edible part was added;
- The application principle was added;
- The provisions of maximum-levels of selenium, aluminium and fluorine were deleted;
- The provisions of maximum-levels of tin, nickel, 3-chlorine-1, 2-propanediol and nitrate were added;
- The maximum-level index of N-nitrosamine was adjusted FROM N-dimethyl nitrosamine and N-Dimethyl ethyl nitramine TO N-dimethyl nitrosamine; and the maximum-level index name of N-nitrosamine was modified to N-dimethyl nitrosamine;
- Appendix A was added;
- The maximum-level index of rare earth was implemented according to the former GB 2762-2005.

National Food Safety Standard – Maximum Levels of Contaminants in Foods

1 Scope

This Standard specifies the maximum-level indexes of lead, cadmium, mercury, arsenic, tin, nickel, chromium, nitrite, nitrate, benzo[a]pyrene, N-dimethyl nitrosamine, polychlorinated biphenyl, 3-chlorine-1, and 2-propanediol in foods.

2 Terms and Definitions

2.1 Contaminant

It refers to the chemical hazardous substances (in foods) produced in the processes of production (including crop-cultivating, animal-feeding and veterinary-medicating), processing, packaging, storage, transportation, sales and eating or brought in by environmental pollution and non-intentionally added.

The contaminants specified in this Standard refer to the contaminants except pesticide residue, veterinary drug residues, biological toxins and radioactive substance.

2.2 Edible part

The edible part obtained after the non-edible part is removed mechanically (grinding of grain, scalping of fruit, shelling of nuts, boning of meat, boning of fish and shelling of shellfish) from food raw material.

Note 1: Removal of non-edible part shall not adopt any non-mechanical means (e.g. refining process of rough vegetable oil).

Note 2: The quantity of edible part varies according to the differences of production processes, when the same food raw materials are applied to produce different products. For example, when wheat is applied to process breakfast cereal and whole wheat flour, the edible part is calculated with 100%; when the wheat flour is processed, the edible part is converted according to flour yield.

2.3 Maximum-level

It refers to the maximum allowable content of contaminant in edible part of food raw material and/or food product.

(except celery)	
Celery	0.2
Fruit and its products	
Fresh fruit	0.05
Edible fungi and its product	
Fresh edible fungi (except lentinus edodes and agaricus blazei murrill)	0.2
Lentinus edodes	0.5
Edible fungi products (except the products of agaricus blazei murrill)	0.5
Bean and its products	
Beans	0.2
Nuts and seeds	
Peanut	0.5
Meat and meat products	
Meat (except the viscera of livestock and poultry)	0.1
Liver of livestock and poultry	0.5
Kidney of livestock and poultry	1.0
Meat products (except the products of liver and kidney))	0.1
Liver products	0.5
Kidney products	1.0
Aquatic livestock and their products	
Fresh and frozen aquatic livestock	
Fishes	0.1
Crustacea	0.5
Aquatic processed product of bivalve, gastropod, cephalopod and echinodermata	2.0 (with viscera removed)
Canned fish (except canned anchovy and sailfish)	0.2
Canned anchovy and sailfish	0.3
Other fish products (except anchovy and sailfish products)	0.1
Anchovy and sailfish products	0.3
Egg and egg products	0.05
Condiments	
Edible salt	0.5
Fish condiment	0.1
Beverages	
Packaged water (except mineral water)	0.005 mg/L
Mineral water	0.003 mg/L
^a Paddy is counted in brown rice.	

4.2.2 Inspection method: It is determined by the method specified in GB/T 5009.15.

4.3 Mercury

4.3.1 The maximum-level indexes of mercury in foods are shown in Table 3.

5009.123.

4.8 Nitrite and nitrate

4.8.1 The maximum-level index of nitrite and nitrate in foods is shown in Table 8.

Table 8 Maximum-level Index of Nitrite and Nitrate in Foods

Food category (name)	Maximum-level mg/kg	
	Nitrite (in NaNO ₂)	Nitrate (in NaNO ₃)
Vegetable and its products		
Pickles	20	-
Milk and milk products		
Raw milk	0.4	-
Milk powder	2.0	-
Beverages		
Packaged water (except mineral water)	0.005 mg/L(in NO ₂ ⁻)	-
Mineral water	0.1 mg/L(in NO ₂ ⁻)	45 mg/L(in NO ₃ ⁻)
Foods for special diets		
Formula foods for infants and young children		
Formula foods for infants	2.0 ^a (in powder products)	100 (in powder products)
Follow-on formula food	2.0 ^a (in powder products)	100 ^b (in powder products)
Formula foods for infant and young children for special medical purpose	2.0 (in powder products)	100 (in powder products)
Complementary foods for infants and young children		
Cereal-based complementary foods for infants and young children	2.0 ^c	100 ^b
Canned complementary foods for infants and young children	4.0 ^c	200 ^b
^a It is only applicable to the milk-based products. ^b It is not applicable to the products added with vegetables or fruits. ^c It is not applicable to the products added with beans.		

4.8.2 Inspection method: Beverages are determined according to the method specified in GB/T 8538; and other foods are determined according to the method specified in GB/T 5009.33.

4.9 Benzo[a]pyrene

4.9.1 Maximum-level indexes of benzo[a]pyrene in foods are shown in Table 9.

Edible fungi and its products	Fresh edible fungi (those that are not machined, processed of surface, pre-cut, frozen) Lentinus edodes Agaricus blazei murrill Other fresh edible fungi Edible fungi products Canned edible fungi Dry-processed edible fungi Pickled edible fungi (for example, sauced, salted and sweet-soured edible fungi) Water-cooked or fried edible fungi Other edible fungi products
Cereal and its products (excluding roasted products)	Cereal Paddy Corn Wheat Barley Other cereals [e.g. millet, broomcorn, rye, oat, buckwheat, etc.] Finished products of mill cereal Brown rice Rice Wheat flour Corn flour (grits, flakes) Breakfast cereal Other skinned cereal (e.g. millet, sorghum rice, pearl barley, husked millet, etc.) Cereal products Rice products (e.g. rice noodles, glue pudding powder and other products, etc.) Wheat flour products Raw & wetted flour product (such as noodle, dumpling wrapper, wonton wrapper and Shao-mai wrapper) Raw & dry flour products Fermented flour products Paste (such as paste used for fish and poultry meat), coated-powder and fried flour Gluten Other wheat flour products Corn products Other grain products (e.g. filled flour and rice products, eight ingredients porridge can, etc.)
Bean and its products	Bean (dry bean and powder ground by dry bean) Bean products Non-fermented bean products (e.g. soybean milk, bean curd, dried tofu, bean curd stick, cooked beans, puffed food of soybean protein, vegetarian meat of soybean, etc.) Fermented bean products (e.g. preserved bean-curd, natto, lobster sauce, lobster sauce products, etc.) Bean cans

Sugar and starch sugar	Sugar White sugar and white sugar products (e.g. white granulated sugar, soft sugar, rock candy and cube sugar) Other sugar and syrup (e.g. brown sugar, brown granulated sugar, golden slab sugar, raw sugar, molasses, partially-invert sugar and maple syrup) Starch sugar (fruit sugar, glucose, caramel and partially-inverted sugar)
Starch and starch products (including the	Edible starch Starch products Silk noodles and vermicelli Lotus root starch Other starch products (e.g. shrimp flavour slice)
Bakery products	Bread Pastry (including moon cake) Biscuits (e.g. sandwich biscuits, wafer biscuits and egg roll etc.) Other bakery products
Cocoa products, chocolate and chocolate products as well as	Cocoa products, chocolate and chocolate products (including cocoa butter substitute chocolate and the products) Candy (including gum base candy)
Frozen drinks	Ice cream Flavoured ice and frozen sucker Edible ices Other frozen drinks
Foods for special diets	Formula foods for infants and young children Formula foods for infants Follow-on formula food Formula foods for infant and young children for special medical purpose Complementary foods for infants and young children Cereal-based complementary foods for infants and young children Canned complementary foods for infants and young children Other foods for special diets
Other categories (foods except the above)	Jelly Puffed food Honeybee products (e.g. honey and pollen, etc.) Tea Dry chrysanthemum Broadleaf holly leaf

END

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