



GB 2763-2021

National Food Safety Standard Maximum Residue Limits for Pesticide in Food 食品安全国家标准 食品中农药最大残留限量

National Health and Family Planning Commission
Ministry of Agriculture
China Food and Drug Administration

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National Food Safety Standard
Maximum Residue Limits for Pesticide in Food
食品安全国家标准
—食品中农药最大残留限量

Issued by:

National Health Commission
Ministry of Agricultural and Rural Affairs
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Agrochemical Department

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Preface

This standard is formulated pursuant to rules provided in the “GB/T 1.1 2009 Directives for Standardization- Part 1: Structure and Drafting of Standards”

This standard replaces “GB 2763-2019 National Food Safety Standard Maximum Residue Limits for Pesticides in Food”, and in addition to structural and editorial amendments, it differs from the GB 2763-2019 in the following aspects:

- a) Added 81 pesticides, including 2,4-DB;
- b) Added 2985 MLRs;
- c) Added 7 standards for test methods, revised 2 standards for testing methods, and removed 2 standards for testing methods;
- d) Added ADIs for 66 pesticides including 2,4-DB;
- e) Revised the Chinese common name of Fosthiazate and English common names of 3 pesticides including 2,4-D dimethyl amine salt;
- f) Revised 194 MLRs previously promulgated;
- g) Revised the residue definition of 12 pesticides including Fluazifop;
- h) Revised the ADIs for 4 pesticides including Fenpropimorph;
- i) Parts of the temporary MRLs for 17 pesticides including MCPA (sodium) have been changed into formal ones and formal MRLs for 3 pesticides including Cycloxydim have been changed into temporary ones;
- j) Revised the Nominative Reference Annex A by adding 20 food names, including whole wheatmeal, and revising 15 food names.

The previous versions of this standard are as follows:

——GB 2763-2005, ——GB 2763-2012, ——GB 2763-2014, ——GB 2763-2016, GB 2763-2019;
——GB 2763.1-2018.

National Food Safety Standard Maximum Residue Limits for Pesticides in Foods**1 Scope**

This standard specifies 10,092 food maximum residue limits for 564 pesticides including 2,4-DB, etc.

The standard applies to food commodities relevant to residue limits.

The food categories and testing parts (Annex A) is used to define the applicable scope of the pesticide maximum residue limits, which applies only to this standard. If a maximum residue limit for a pesticide is applicable for a certain food category, the MRL will be applicable to all food commodities in the category, except otherwise specified. The “List of Pesticides Exempted from Developing MRLs for Food” (refer to the Annex B) is used to define the scope of pesticides that are exempted from developing Food MRLs.

2 Normative reference

The contents in the referenced documents shall form essential clause of this standard. For dated references, only the dated versions apply to this standard. For undated references, the latest versions (including all modifications) apply to this standard.

Supporting methods that satisfy test requirements shall be selected for testing. After the enactment of this standard, the newly released National Food Safety Standard (GB 23200) will be applicable for the testing of relevant parameters.

GB/T 5009.19 Multi-residues determination of organochlorine pesticides in food

GB/T 5009.20 Residue determination of organophosphorous pesticides in food

GB/T 5009.21 Residue determination of Carbaryl in cereals, oils and vegetables

GB/T 5009.36 Analytical methods for hygienic standard of grains

GB/T 5009.102 Residue determination of Phoxim in plant derived food

GB/T 5009.103 Residue determination of Methamidophos and Acephate in plant derived food

GB/T 5009.104 Residue determination of carbamate pesticides in plant derived food

GB/T 5009.105 Residue determination of Chlorothalonil in cucumber

GB/T 5009.107 Residue determination of Diazinon in plant derived food

GB/T 5009.113 Residue determination of Thiocyclam in rice

GB/T 5009.114 Residue determination of Bisultap in rice

GB/T 5009.115 Residue determination of Tricyclazole in unhulled rice

GB/T 5009.126 Residue determination of Triadmepon in plant derived food

GB/T 5009.129 Residue determination of Ethoxyquin in fruits

GB/T 5009.130 Residue determination of Fomesafen in soybean and cereals

GB/T 5009.131 Residue determination of Phosmet in plant derived food

GB/T 5009.132 Residue determination of Atrazine in foods

GB/T 5009.133 Residue determination of Chlorotoluron in grains

GB/T 5009.134 Residue determination of Molinate in rice

GB/T 5009.135 Residue determination of Chlorbenzuron in plant derived food

GB/T 5009.136 Residue determination of Quintozene in plant derived food

GB/T 5009.142 Residue determination of Fluazifop-butyl and Fluazifop-P-butyl in plant derived food

GB/T 5009.143 Residue determination of Amitraz in vegetables, fruits, edible oil

GB/T 5009.144 Residue determination of Isofenphos-methyl in plant derived food

GB/T 5009.145 Multi-residue determination of organophosphorus and carbamate pesticides in plant derived food

GB/T 5009.146 Multi-residue determination of organochlorines and pyrethroid pesticides in plant derived food

GB/T 5009.147 Residue determination of Diflubenzuron in plant derived food

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GB/T 5009.155 Residue determination of Isoprotiolane in rice

GB/T 5009.160 Residue determination of Semianitraz in fruits

GB/T 5009.161 Residue determination of organophosphate pesticides in animal derived food

GB/T 5009.162 Multi-residue determination of organochlorine and pyrethroid pesticides in animal derived food

GB/T 5009.164 Residue determination of Butachlor in rice

GB/T 5009.165 Residue determination of 2, 4-D butylate in grains

GB/T 5009.172 Residue determination of Trifluralin in soybean, peanut, soybean oil, peanut oil

GB/T 5009.174 Residue determination of Metolachlor in peanut and soybean

GB/T 5009.175 Residue determination of 2, 4-D Butylate in grains and vegetables

GB/T 5009.176 Residue determination of Dicofol in tea, fruits, edible vegetable oils

GB/T 5009.177 Residue determination of Propanil in rice

GB/T 5009.180 Residue determination of Oxadiazon in cereals and peanuts

GB/T 5009.184 Residue determination of Buprofezin in cereals and vegetables

GB/T 5009.200 Residue determination of Difenzoquat in wheat

GB/T 5009.201 Residue determination of Diniconazole in pear

GB/T 5009.218 Residue determination of multiple pesticides in fruits and vegetables

GB/T 5009.219 Residue determination of Chlormequat in cereals

GB/T 5009.220 Residue determination of Anilazine in cereals

GB/T 5009.221 Residue determination of Diquat in cereals

GB/T 14553 Residue determination of organophosphorus pesticides in cereals, fruits and vegetables GC method

GB/T 14929.2 Method for Residue determination of Aldicarb in peanut, cottonseed oil and peanut oil

GB/T 19650 Residue determination of 478 pesticides and related chemicals in animal muscle GC-MS method

GB/T 20769 Residue determination of 450 pesticides and related chemicals in fruits and vegetables LC-MS/MS method

GB/T 20770 Residue determination of 486 pesticides and related chemicals in grains LC-MS/MS method

GB/T 20771 Residue determination of 486 pesticides and related chemicals in honey LC-MS/MS method

GB/T 20772 Residue determination of 461 pesticides and related chemicals in animal muscle LC-MS/MS method

GB/T 22243 Residue determination of Fluroxypyr in rice, vegetables and fruits

GB/T 22979 Residue determination of Boscalid in cow milk and powdered milk GC-MS method

GB 23200.2 National Food Safety Standard-Testing Methods for Residue of Herbicides Part 2: GC-MS method-Residue determination of diphenyl ether herbicides in cereal and oilseeds

GB 23200.3 National Food Safety Standard-Testing Methods for Residue of Herbicides Part 3: LC-MS/MS method-Residue determination of cyclohexanone herbicides in food

GB 23200.6 National Food Safety Standard-Testing Methods for Residue of Herbicides Part 6: LC-MS/MS method-Residue determination of Amitrole in food

GB 23200.8 National Food Safety Standard-Residue determination of 500 herbicides and relevant chemicals in fruits and vegetables GC-MS method

GB 23200.9 National Food Safety Standard-Residue determination of 475 pesticides and relevant chemicals in grains GC-MS method

GB 23200.11 National Food Safety Standard-Residue determination of 413 pesticides and relevant chemicals in Mulberry stem, Honeysuckle flower, Goji berry and lotus leaf LC-MS method

GB 23200.13 National Food Safety Standard-Residue determination of 448 pesticides and relevant chemicals in tea LC-MS method

GB 23200.14 National Food Safety Standard-Residue determination of 512 pesticides and relevant chemicals in fruit/vegetable juice and fruit wine LC-MS method

GB 23200.15 National Food Safety Standard-Residue determination of 503 pesticides and relevant chemicals in

edible fungi GC-MS method

GB 23200.16 National Food Safety Standard-Residue determination of Ethephone in fruits and vegetables GC method

GB 23200.19 National Food Safety Standard-Residue determination of Abamectin in fruits and vegetables LC method

GB 23200.20 National Food Safety Standard-Residue determination of Abamectin in food by LC-MS/MS method

GB 23200.22 National Food Safety Standard-Residue determination of Maleic hydrazide in nuts and nut products LC method

GB 23200.24 National Food Safety Standard-Residue determination of 11 herbicides in grains and soybean GC-MS method

GB 23200.29 National Food Safety Standard-Residue determination of Fenpyroximate in fruits and vegetables LC method

GB 23200.31 National Food Safety Standard-Residue determination of Flumioxazin in food by GC-MS method

GB 23200.32 National Food Safety Standard-Residue determination of Daminozide in food GC-MS method

GB 23200.33 National Food Safety Standard-Residue determination of 110 pesticides (including Benoxacor, Anilofos and Allidochlor) in food GC-MS method

GB 23200.34 National Food Safety Standard-Residue determination of 65 pesticides including Aldoxycarb, Pyraclostrobine and Azoxystrobin in food LC-MS/MS method

GB 23200.37 National Food Safety Standard-Residue determination of 20 pesticides including Nitenpyram and Dinotefuran in food LC-MS/MS method

GB 23200.38 National Food Safety Standard-Residue determination of cyclohexanedione herbicides in plant derived food LC-MS/MS method

GB 23200.39 National Food Safety Standard-Residue determination of Thiamethoxam and its metabolite Clothianidin in food LC-MS/MS method

GB 23200.43 National Food Safety Standard-Residue determination of Quinclorac in grains and oilseeds GC method

GB 23200.45 National Food Safety Standard-Residue determination of Diflubenzuron in food LC-MS method

GB 23200.46 National Food Safety Standard-Residue determination of Pyrimethanil, Mepanipyrim, Myclobutanil, Azoxystrobin in food GC-MS method

GB 23200.47 National Food Safety Standard-Residue determination of Clofentezine in food GC-MS method

GB 23200.49 National Food Safety Standard-Residue determination of Difenconazole in food GC-MS method

GB 23200.50 National Food Safety Standard-Residue determination of pyridine pesticides in food LC-MS/MS method

GB 23200.53 National Food Safety Standard-Residue determination of Flusilazole in food GC-MS method

GB 23200.54 National Food Safety Standard-Residue determination of strobilurin fungicides in food GC-MS method

GB 23200.56 National Food Safety Standard-Residue determination of Quinoxifen in food

GB 23200.57 National Food Safety Standard Residue determination of Acetochlor in food

GB 23200.62 National Food Safety Standard-Residue determination of Flumiclorac in food GC-MS method

GB 23200.64 National Food Safety Standard-Residue determination of Pyriproxyfen in food LC-MS/MS method

GB 23200.65 National Food Safety Standard-Residue determination of Tetraconazole in food

GB 23200.68 National Food Safety Standard-Residue determination of Boscalid in food GC-MS method

GB 23200.69 National Food Safety Standard-Residue determination of dinitraniline pesticides in food LC-MS/MS method

GB 23200.70 National Food Safety Standard-Residue determination of Acifluorfen in food LC-MS/MS method

GB 23200.73 National Food Safety Standard-Residue determination of Rotenone and Azadirachtin in food LC-MS/MS method

GB 23200.74 National Food Safety Standard-Residue determination of Jiangangmycin in food LC-MS/MS method

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GB 23200.75 National Food Safety Standard-Residue determination of Flonicamid in food

GB 23200.76 National Food Safety Standard-Residue determination of Flubendiamide in food LC-MS/MS method

GB 23200.83 National Food Safety Standard-Residue determination of Iprobenfos in food

GB 23200.104 National Food Safety Standard-Residue determination of MCPA and MCPA butyric acid in meat and meat products LC-MS method

GB 23200.108 National Food Safety Standard-Residue determination of Glufosinate in plant derived food LC-MS method

GB 23200.109 National Food Safety Standard-Residue determination of Clopyralid in plant derived food LC-MS method

GB 23200.110 National Food Safety Standard-Residue determination of Forchlorfenuron in plant derived food LC-MS method

GB 23200.111 National Food Safety Standard-Residue determination of Flumetsulam in plant derived food LC-MS method

GB 23200.112 National Food Safety Standard-Residue determination of 9 carbamate pesticides and their metabolites in plant derived food LC-post column derivation method

GB 23200.113 National Food Safety Standard-Residue determination of 208 pesticides and their metabolites in plant derived food by GC-MS method

GB 23200.115 National Food Safety Standard-Residue determination of Fipronil and its metabolites in chicken eggs by LC-MS method

GB 23200.116 National Food Safety Standard-Residue determination of 90 organophosphorus pesticides and their metabolites in plant derived food GC method

GB 23200.117 National Food Safety Standard-Residue determination of Oxine-copper in plant derived food HPLC

GB/T 23204 Residue determination of 519 pesticides and relevant chemicals in tea GC-MS method

GB/T 23210 Residue determination of 511 pesticides and relevant chemicals in cow milk and powdered milk GC-MS method

GBT 23211 Residue determination of 493 pesticides and relevant chemicals in cow milk and powdered milk LC-MS/MS method

GB/T 23376 Multi-residue determination of pesticides in tea GC-MS method

GB/T 23379 Residue determination of Imidacloprid in fruits, vegetables and tea HPLC method

GB/T 23584 Residue determination of Acetamiprid in fruits and vegetables LC-MS/MS method

GB/T 23750 Residue determination of Glyphosate in plant derived food GC-MS method

GB/T 23816 Residue determination of triazine herbicides in soybean

GB/T 23818 Residue determination of imidazolone herbicides in soybean

GB/T 25222 Inspection of Grains and Oils Residue determination of phosphide in grains SP method

GB 29707 National Food Safety Standard-Residue determination of Amitraz markers in cow milk GC method

NY/T 761 Residue determination of organophosphorus, organochloride, pyrethroid and carbamate pesticides in fruits and vegetables

NY/T 1096 Residue determination of Glyphosate in food

NY/T 1277 Residue determination of Iprodione in vegetables HPLC method

NY/T 1379 Residue determination of 334 pesticides in vegetables GC-MS and LC-MS methods;

NY/T 1434 Residue determination of 13 pesticides including 2,4-D in vegetables LC/MS method

NY/T 1453 Residue determination of 16 pesticides including Carbendazim in vegetables and fruits LC-MS-MS method

NY/T 1455 Residue determination of Myclobutanil in fruits GC method

NY/T 1456 Residue determination of Prochloraz in fruits GC method

NY/T 1616 Residue determination of 9 sulfonylurea herbicides in soil LC-MS method

NY/T 1652 Residue determination of Propargite in fruits and vegetables GC method

NY/T 1679 Residue determination of carbamate pesticides in plant derived food LC-MS/MS method

NY/T 1680 Residue determination of 4 benzimidazole pesticides including Carbendazim in fruits and vegetables HPLC method

NY/T 1720 Residue determination of 7 benzoyurea pesticides including Triflumuron in fruits and vegetables HPLC method

NY/T 1721 Residue determination of Propargite in tea GC method

NY/T 1722 Residue determination of Anilazine in vegetables HPLC method

NY/T 1725 Residue determination of Cyromazine in vegetables HPLC method

NY/T 2820 Simultaneous Residue determination of 5 bishydrazide pesticides (including Yishijing, Tebufenozide, Methoxyfenozide, Fufenozide and Chromafenozide) in plant derived food LC-MS/MS method

SN/T 0134 Residue determination of 12 carbamate pesticides including Oxamyl in imported and exported food LC-MS/MS

SN/T 0139 Residue determination of di-thiocarbamates in exported grains

SN/T 0157 Residue determination of di-thiocarbamates in exported fruits

SN/T 0162 Residue determination of Thiophanate-methyl, Thiophanate, Carbendazim, Benomyl and Thiabendazole in exported fruits HPLC method

SN/T 0192 Residue determination of Bromopropylate in exported fruits

SN/T 0217 Multi-residue determination of pyrethroid pesticides in exported plant derived food GC-MS method

SN/T 0293 Residue determination of Paraquat and Diquat in exported plant derived food LC-MS/MS method

SN/T 0519 Residue determination of Propiconazole in imported food

SN/T 0525 Residue determination of Thiram in exported fruits and vegetables

SN/T 0592 Residue determination of Fenbutatin oxide in exported grains and oilseeds

SN/T 0654 Residue determination of Captan in exported fruits GC and GC-MS-MS methods

SN/T 0685 Residue determination of Propamocarb in exported grains

SN/T 0701 Residue determination of Phosphamidon in exported grains

SN/T 0931 Residue determination of Prohexadione calcium in exported grains LC method

SN/T 1477 Residue determination of Paclobutrazol in exported food

SN/T 1541 Residue determination of total dithiocarbamate residue in exported tea

SN/T 1605 Residue determination of Cyanazine, Fluometuron, Atrazine, Propanil, Linouren in imported and exported plant derived food LC-MS/MS

SN/T 1606 Residue determination of phenoxy acid herbicides in imported and exported plant derived food GC method

SN/T 1739 Multi-residue determination of organophosphorus pesticides in imported and exported grains and oilseeds GC-MS/MS method

SN/T 1923 Residue determination of Glyphosate in imported and exported food LC-MS/MS method

SN/T 1968 Residue determination of Prometryn in imported and exported food GC-MS method

SN/T 1969 Residue determination of Bifenthrin in imported and exported food GC-MS method

SN/T 1971 Residue determination of Indoxacarb in imported and exported food LC-MS/MS method

SN/T 1976 Residue determination of Azoxystrobin in imported and exported food GC method

SN/T 1982 Residue determination of Fipronil in imported and exported food GC-MS method

SN/T 1986 Residue determination of Chlorfenapyr in imported and exported food

SN/T 2095 Residue determination of Chlorfluazuron in imported and exported vegetables HPLC method

SN/T 2147 Residue determination of Cadusafos in imported and exported food

SN/T 2151 Residue determination of 28 pesticides (including Bioresmethrin, Acrinathrin and Bifenthrin) in imported and exported food GC-MS method

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SN/T 2152 Residue determination of Hexaflumuron in imported and exported food HPLC-MS/MS method
SN/T 2158 Residue determination of Chlorpyrifos in imported and exported food
SN/T 2212 Residue determination of Bensulfuron-methyl in imported and exported grains LC method
SN/T 2228 Residue determination of 31 acidic pesticides in imported and exported food GC method
SN/T 2229 Residue determination of Isoprothiolane in imported and exported food
SN/T 2233 Residue determination of Fenpropathrin in imported and exported food
SN/T 2234 Residue determination of Profenofos in imported and exported food GC and LC-MS methods
SN/T 2320 Residue determination of Chlorothalonil, Dichlofluanid, Tolyfluanid, Chlorothalonil, Folpet, Captafol and Tralomethrin in imported and exported food GC-MS method
SN/T 2324 Residue determination of 33 pesticides (including Butamifos, Chlorpyrifos and Chlorpyrifos-methyl) in imported and exported food
SN/T 2325 Residue determination of 45 pesticides (including Azimsulfuron, Bensulfuron-methyl and Cinosulfuron) in imported and exported food HPLC-MS/MS method
SN/T 2397 Residue determination of Nicotine in imported and exported food
SN/T 2432 Residue determination of Pyridaben in imported and exported food
SN/T 2441 Residue determination of Aldicarb, Aldoxycarb and Aldicarb sulfoxide in imported and exported food LC-MS/MS method
SN/T 2540 Residue determination of benzoylurea pesticides in imported and exported food by LC-MS/MS method
SN/T 2560 Residue determination of carbamate pesticides in imported and exported food by LC-MS/MS method
SN/T 2915 Residue determination of 160 pesticides (including Alachlor, Acethchlor and Azamethiphos) in exported food GC-MS method
SN/T 3539 Residue determination of Cyflumetofen in exported food
SN/T 3768 Residue determination of multiple organophosphorus pesticides in exported grains GC/ MS method
SN/T 3769 Residue determination of Trichlorfon and Phoxim in exported grains LC-MS/MS method
SN/T 3852 Residue determination of Metaflumizone in exported food LC-MS/MS method
SN/T 3859 Residue determination of Butralin in exported food
SN/T 3860 Residue determination of Pymetrozine in exported food LC-MS/MS method
SN/T 4066 Residue determination of Acequinocyl and Acequinocyl-hydroxy in exported food LC-MS/MS method
SN/T 4264 Residue determination of Metaldehyde in exported food GC-MS method
SN/T 4558 Residue determination of Cyhexatin (Azocyclotin) and Fenbutatin in exported food
SN/T 4586 Residue determination of Thidiazuron in exported food HPLC method
SN/T 4591 Residue determination of 60 pesticides including Absciscic acid in exported fruits and vegetables LC-MS/MS method
SN/T 4655 Residue determination of Glyphosate and its metabolites in exported food LC-MS/MS method
YC/T 180 Tobacco and tobacco products-Residue determination of Camphechlor in tobacco and tobacco products GC method

3 Terms and definitions

The terms and definitions below apply to this standard.

3.1

Residue Definition

Any particular substance in food, agricultural products and animal feed due to the use of pesticides, including pesticide derivatives which considered to have toxicological significance, such as pesticide conversion products, metabolites, reaction products and impurities, etc.

3.2

Maximum Residue Limit (MRL)

The statutory maximum concentration of pesticide residues allowed in the internal or surface of foods or agricultural products, expressed as the milligrams of pesticide residues per kilogram of foods or agricultural products (mg/kg).

3.3

Extraneous Maximum Residue Limit (EMRL)

Although some persistent residual pesticides have been prohibited, they present in the environment for a long time, which is in the formation of in food once again. The residue limits in food are developed in order to control the contamination of such pesticides in foods, expressed as the milligrams of pesticide residues per kilogram of food or agricultural products (mg/kg).

3.4

Acceptable Daily Intake (ADI)

The estimated amount of a substance, consumed daily for a person's lifetime, without generating detectable health hazards, expressed as the amount of intake per kilogram of body weight (mg/kg bw).

4 Technical Requirements**4.1 2,4-DB**

4.1.1 Main Usage: herbicide.

4.1.2 ADI: 0.02mg/kg bw.

4.1.3 Residue Definition: sum of 2,4-DB, free and conjugated 2,4-DB, expressed as 2,4-DB.

4.1.4 Maximum Residue Limit: shall comply with provisions in the Table 1.

Table 1

Food Category/Name	Maximum residue limit, mg/kg
Condiments	
Mint	0.2*
Spearmint	0.2*
Pepper	0.2*
*The MRL is the temporary limit.	

4.2 2,4-D butylate

4.2.1 Main Usage: herbicide.

4.2.2 ADI: 0.01 mg/kg bw.

4.2.3 Residue Definition: 2,4-D butylate.

4.2.4 Maximum Residue Limit: shall comply with provisions in the Table 2.

Table 2

Food Category/Name	Maximum residue limit, mg/kg
Cereals	
Wheat	0.05
Maize	0.05
Oilseeds and oils	
Soybean	0.05
Sugar crops	
Sugarcane	0.05

4.2.5 Testing Method: cereals shall be tested by methods provided in GB/T 5009.165 and GB/T 5009.175; oils and oilseeds shall be tested referring to methods provided in GB/T 5009.165; sugar crops shall be tested referring to methods provided in GB/T 5009.175.



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