

Translated English of Chinese Standard: GB31650-2019  
[www.ChineseStandard.net](http://www.ChineseStandard.net) → Buy True-PDF → Auto-conveyor.  
[Sales@ChineseStandard.net](mailto:Sales@ChineseStandard.net)

**GB**

NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA

**GB 31650-2019**

---

**National food safety standard - Maximum residue  
limits for veterinary drugs in foods**

食品安全国家标准 食品中兽药最大残留限量

**Issued on: September 06, 2019**

**Implemented on: April 01, 2020**

---

**Issued by: Ministry of Agriculture and Rural Affairs of PRC;  
National Health Commission of PRC;  
State Administration for Market Regulation.**

## Table of Contents

Foreword.....	11
1 Scope.....	12
2 Normative references.....	12
3 Terms and definitions .....	12
3.1 Veterinary drug residue .....	12
3.2 Total residue .....	12
3.3 Acceptable daily intake (ADI) .....	13
3.4 Maximum residue limit (MRL).....	13
3.5 Food-producing animal.....	13
3.6 Fish .....	13
3.7 Poultry .....	13
3.8 Animal derived food.....	13
3.9 Edible Tissues .....	13
3.10 Skin with fat.....	14
3.11 Muscle with skin .....	14
3.12 Byproducts .....	14
3.13 Edible offal.....	14
3.14 Muscle .....	14
3.15 Egg.....	14
3.16 Milk.....	14
3.17 All other food-producing species .....	14
4 Technical requirements .....	15
4.1 Veterinary drugs with maximum residue limits in animal derived foods that have been approved .....	15
4.1.1 Albendazole .....	15
4.1.2 Amitraz.....	15
4.1.3 Amoxicillin .....	16
4.1.4 Ampicillin.....	16
4.1.5 Amprolium.....	16
4.1.6 Apramycin.....	17
4.1.7 Arsanilic acid/Roxarsone.....	17
4.1.8 Avermectin .....	17
4.1.9 Avilamycin.....	18

---

4.1.10 Azaperone.....	18
4.1.11 Bacitracin .....	19
4.1.12 Benzylpenicillin/Procaine benzylpenicillin .....	19
4.1.13 Betamethasone.....	19
4.1.14 Carazolol.....	20
4.1.15 Cefalexin.....	20
4.1.16 Cefquinome .....	20
4.1.17 Ceftiofur .....	21
4.1.18 Clavulanic acid.....	21
4.1.19 Clopidol.....	21
4.1.20 Closantel.....	22
4.1.21 Cloxacillin.....	22
4.1.22 Colistin .....	22
4.1.23 Cyfluthrin.....	23
4.1.24 Cyhalothrin.....	23
4.1.25 Cypermethrin and alpha-Cypermethrin .....	24
4.1.26 Cyromazine.....	24
4.1.27 Danofloxacin .....	24
4.1.28 Decoquinatate.....	25
4.1.29 Deltamethrin .....	25
4.1.30 Destomycin A.....	26
4.1.31 Dexamethasone.....	26
4.1.32 Diazinon.....	26
4.1.33 Dichlorvos .....	27
4.1.34 Diclazuril .....	27
4.1.35 Dicyclanil.....	27
4.1.36 Difloxacin .....	28
4.1.37 Diminazene.....	28
4.1.38 Dinitolmide .....	29
4.1.39 Doramectin .....	29
4.1.40 Doxycycline.....	29
4.1.41 Enrofloxacin .....	30
4.1.42 Eprinomectin.....	30
4.1.43 Erythromycin.....	31
4.1.44 Ethopabate .....	31
4.1.45 Febantel/ Fenbendazole/ Oxfendazole .....	32
4.1.46 Fenthion.....	32

---

4.1.47 Fenvalerate .....	32
4.1.48 Florfenicol .....	33
4.1.49 Fluazuron .....	33
4.1.50 Flubendazole .....	34
4.1.51 Flugestone Acetate .....	34
4.1.52 Flumequine .....	34
4.1.53 Flumethrin .....	35
4.1.54 Fluvalinate .....	35
4.1.55 Gentamicin .....	36
4.1.56 Halofuginone .....	36
4.1.57 Imidocarb .....	36
4.1.58 Isometamidium .....	37
4.1.59 Ivermectin .....	37
4.1.60 Kanamycin .....	37
4.1.61 Kitasamycin .....	38
4.1.62 Lasalocid .....	38
4.1.63 Levamisole .....	39
4.1.64 Lincomycin .....	39
4.1.65 Maduramicin ammonium .....	39
4.1.66 Malathion .....	40
4.1.67 Mebendazole .....	40
4.1.68 Metamizole .....	40
4.1.69 Monensin .....	41
4.1.70 Moxidectin .....	41
4.1.71 Narasin .....	42
4.1.72 Neomycin .....	42
4.1.73 Nicarbazin .....	42
4.1.74 Nitroxinil .....	43
4.1.75 Olaquinox .....	43
4.1.76 Oxacillin .....	43
4.1.77 Oxibendazole .....	44
4.1.78 Oxolinic acid .....	44
4.1.79 Oxytetracycline/Chlortetracycline/Tetracycline .....	45
4.1.80 Phoxim .....	45
4.1.81 Piperazine .....	45
4.1.82 Pirlimycin .....	46
4.1.83 Propetamphos .....	46

---

4.1.84 Rafoxanide.....	46
4.1.85 Robenidine.....	47
4.1.86 Salinomycin .....	47
4.1.87 Sarafloxacin .....	47
4.1.88 Semduramicin.....	48
4.1.89 Spectinomycin .....	48
4.1.90 Spiramycin .....	48
4.1.91 Streptomycin/Dihydrostreptomycin .....	49
4.1.92 Sulfadimidine .....	49
4.1.93 Sulfonamides .....	50
4.1.94 Thiabendazole .....	50
4.1.95 Thiamphenicol.....	50
4.1.96 Tiamulin .....	51
4.1.97 Tilmicosin .....	51
4.1.98 Toltrazuril.....	52
4.1.99 Trichlorfon.....	52
4.1.100 Triclabendazole.....	52
4.1.101 Trimethoprim.....	53
4.1.102 Tylosin.....	53
4.1.103 Tylvalosin .....	54
4.1.104 Virginiamycin.....	54
4.2 Veterinary drugs that are allowed to be used in food-producing animals, but do not require a residue limit.....	55
4.2.1 Acetic Acid .....	55
4.2.2 Adrenosem.....	55
4.2.3 Aluminium hydroxide.....	55
4.2.4 Ammonium chloride .....	55
4.2.5 Apramycin .....	55
4.2.6 Artesunate.....	55
4.2.7 Aspirin .....	55
4.2.8 Atropine.....	55
4.2.9 Azamethiphos .....	56
4.2.10 Benzalkonium bromide .....	56
4.2.11 Berberine.....	56
4.2.12 Betaine.....	56
4.2.13 Bismuth subcarbonate .....	56
4.2.14 Bismuth subnitrate .....	56

---

4.2.15 Borax .....	56
4.2.16 Boric acid and borates .....	56
4.2.17 Caffeine .....	56
4.2.18 Calcium borogluconate .....	57
4.2.19 Calcium carbonate .....	57
4.2.20 Calcium chloride .....	57
4.2.21 Calcium gluconate .....	57
4.2.22 Calcium hydrogen phosphate .....	57
4.2.23 Calcium hypochlorite.....	57
4.2.24 Calcium pantothenate .....	57
4.2.25 Calcium peroxide .....	57
4.2.26 Calcium phosphate .....	57
4.2.27 Calcium sulphate .....	57
4.2.28 Camphor .....	58
4.2.29 Chlorhexidine .....	58
4.2.30 Chlorinated lime .....	58
4.2.31 Chlorite sodium.....	58
4.2.32 Chlorocresol.....	58
4.2.33 Choline.....	58
4.2.34 Citrate .....	58
4.2.35 Cloprostenol.....	58
4.2.36 Copper sulfate.....	58
4.2.37 Cortisone .....	59
4.2.38 Cresol .....	59
4.2.39 Deciquam.....	59
4.2.40 Decoquinat.....	59
4.2.41 Diclazuril .....	59
4.2.42 Dimercaprol .....	59
4.2.43 Dimethicone .....	59
4.2.44 Domiphen .....	59
4.2.45 Dried yeast.....	59
4.2.46 Epinephrine.....	60
4.2.47 Ergometrine maleate.....	60
4.2.48 Etamsylate .....	60
4.2.49 Ethanol.....	60
4.2.50 Ferrous sulphate.....	60
4.2.51 Flumethrin.....	60

---

4.2.52 Fluocinonide .....	60
4.2.53 Folic acid.....	60
4.2.54 Follicle stimulating hormone (natural FSH from all species and their synthetic analogues).....	61
4.2.55 Formaldehyde.....	61
4.2.56 Formic acid .....	61
4.2.57 Gelatin .....	61
4.2.58 Glucose.....	61
4.2.59 Glutaraldehyde.....	61
4.2.60 Glycerol.....	61
4.2.61 Gonadotrophin releasing hormone.....	61
4.2.62 Halimide .....	61
4.2.63 Human chorion gonadotrophin.....	61
4.2.64 Hydrochloric acid .....	62
4.2.65 Hydrochlorothiazide .....	62
4.2.66 Hydrocortisone.....	62
4.2.67 Hydrogen peroxide.....	62
4.2.68 Ichthammol .....	62
4.2.69 Idazoxan .....	62
4.2.70 Iodine and iodine inorganic compounds including: sodium and potassium-iodide, sodium and potassium-iodate .....	62
4.2.71 Iron dextran.....	62
4.2.72 Kaolin.....	62
4.2.73 Ketamine.....	63
4.2.74 Lactasin .....	63
4.2.75 Lactic acid.....	63
4.2.76 Lidocaine .....	63
4.2.77 Luteinising hormone (natural LH from all species and their synthetic analogues).....	63
4.2.78 Magnesium chloride.....	63
4.2.79 Magnesium oxide.....	63
4.2.80 Magnesium sulfate.....	63
4.2.81 Mannitol .....	63
4.2.82 Medicinal charcoal .....	64
4.2.83 Menadione .....	64
4.2.84 Methionine iodine.....	64
4.2.85 Methylthioninium chloride .....	64
4.2.86 Naproxen .....	64

---

4.2.87 Neostigmine .....	64
4.2.88 Neutralized eletrolyzed oxidized water .....	64
4.2.89 Nicotinamide .....	64
4.2.90 Nicotinic Acid .....	64
4.2.91 Norepinephrine bitartrate .....	64
4.2.92 Octicine .....	65
4.2.93 Oxytocin .....	65
4.2.94 Paracetamol .....	65
4.2.95 Paraffin .....	65
4.2.96 Pepsin .....	65
4.2.97 Peracetic acid .....	65
4.2.98 Phenol .....	65
4.2.99 Polyethylene glycols (molecular weight ranging from 200 to 10000) .....	65
4.2.100 Polysorbate 80 .....	65
4.2.101 Posterior pituitary .....	65
4.2.102 Potassium aluminium sulfate .....	66
4.2.103 Potassium chloride .....	66
4.2.104 Potassium permanganate .....	66
4.2.105 Potassium peroxymonosulphate .....	66
4.2.106 Potassium sulfate .....	66
4.2.107 Povidone iodine .....	66
4.2.108 Pralidoxime iodide .....	66
4.2.109 Praziquantel (Praziquantel) .....	66
4.2.110 Procaine .....	66
4.2.111 Progesterone .....	66
4.2.112 Pyrantel embonate .....	67
4.2.113 Recombinant lysostaphin .....	67
4.2.114 Salicylic acid .....	67
4.2.115 Scopolamine .....	67
4.2.116 Serum gonadotrophin .....	67
4.2.117 Sodium bicarbonate .....	67
4.2.118 Sodium bromide .....	67
4.2.119 Sodium chloride .....	67
4.2.120 Sodium dichloroisocyanurate .....	67
4.2.121 Sodium dimercaptopropanesulfonate .....	68
4.2.122 Sodium hydroxide .....	68
4.2.123 Sodium lactate .....	68



---

4.2.124 Sodium nitrite .....	68
4.2.125 Sodium Perborate .....	68
4.2.126 Sodium percarbonate .....	68
4.2.127 Sodium Periodate .....	68
4.2.128 Sodium pyrosulphite .....	68
4.2.129 Sodium salicylate .....	68
4.2.130 Sodium selenite .....	69
4.2.131 Sodium stearate .....	69
4.2.132 Sodium sulfate .....	69
4.2.133 Sodium thiosulphate .....	69
4.2.134 Soft soap .....	69
4.2.135 Sorbitan trioleate .....	69
4.2.136 Sorbitol .....	69
4.2.137 Strychnine .....	69
4.2.138 Sulfogaiacol .....	69
4.2.139 Sulphur .....	70
4.2.140 Tetracaine .....	70
4.2.141 Thiopental sodium .....	70
4.2.142 Vitamin A .....	70
4.2.143 Vitamin B <sub>1</sub> .....	70
4.2.144 Vitamin B <sub>12</sub> .....	70
4.2.145 Vitamin B <sub>2</sub> .....	70
4.2.146 Vitamin B <sub>6</sub> .....	70
4.2.147 Vitamin C .....	70
4.2.148 Vitamin D .....	71
4.2.149 Vitamin E .....	71
4.2.150 Vitamin K <sub>1</sub> .....	71
4.2.151 Xylazine .....	71
4.2.152 Xylazole .....	71
4.2.153 Zinc oxide .....	71
4.2.154 Zinc sulphate .....	71
4.3 Veterinary drugs allowed for therapeutic use but not detected in animal food .....	71
4.3.1 Chlorpromazine .....	71
4.3.2 Diazepam .....	72
4.3.3 Dimetridazole .....	72
4.3.4 Estradiol Benzoate .....	72

4.3.5 Hygromycin B (Hygromycin B).....	72
4.3.6 Metronidazole .....	72
4.3.7 Nadrolone phenylpropionate.....	72
4.3.8 Testosterone propionate .....	73
4.3.9 Xylzaine .....	73
Index of English common names of veterinary drugs .....	74

## Foreword

This standard replaces the relevant part of Announcement No.235 "Maximum residue limits of veterinary drugs in food-producing animals", of the Ministry of Agriculture.

Compared with the Announcement No.235 of the Ministry of Agriculture, the main changes of this standard are as follows:

- ADD the term definitions of "Edible offal" and "All other food-producing animals";
- ADD 13 kinds of veterinary drugs, including avilamycin, as well as their residue limits;
- ADD the residue limits of 28 veterinary drugs, including albendazole;
- ADD acceptable daily intake of 15 veterinary drugs, including amoxicillin;
- ADD 73 kinds of veterinary drugs, which are allowed to be used in food-producing animals, such as acetic acid, BUT do not need to establish residue limits;
- REVISE the Chinese or English names of 17 veterinary drugs, including acetyl isovaleryl tylosin;
- REVISE the acceptable daily intake of 9 veterinary drugs, including apramycin;
- REVISE the residual markers of 15 veterinary drugs, including albendazole;
- REVISE the target tissues and residue limits of 29 veterinary drugs, including abamectin;
- REVISE the requirements on the use of 23 veterinary drugs, including amoxicillin;
- DELETE the residue limit of coumaphos;
- DELETE 6 veterinary drugs that are allowed to be used in food-producing animals, BUT do not need to establish residue limits, such as amprolium;
- The list of prohibited drugs and compounds is no longer included.

# National food safety standard - Maximum residue limits for veterinary drugs in foods

## 1 Scope

This standard specifies the maximum residue limits of 104 kinds (categories) of veterinary drugs, such as albendazole, in animal derived foods; specifies 154 veterinary drugs that are allowed to be used in food-producing animals, but do not require establishing a residue limit, such as acetic acid; specifies 9 kinds of veterinary drugs that are allowed to be used for therapeutic purposes BUT must not be detected in food-producing animals, such as chlorpromazine.

This standard applies to animal derived foods, which are related to maximum residue limits.

## 2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

## 3 Terms and definitions

The following terms and definitions apply to this standard.

### 3.1 Veterinary drug residue

Refers to the residue of all drug-related substances, in any edible part of the animal products, after the drug is used for food-producing animals, including the original form of the drug or/and its metabolites.

### 3.2 Total residue

Refers to the original form of the drug or/and the sum of all its metabolites, in any edible part of the animal product, after the drug is administered to food-producing animals.

### **3.3 Acceptable daily intake (ADI)**

It refers to the amount of a certain substance, which is ingested from food or drinking water every day, during a person's life, without obvious harm to his health. It is calculated on the basis of human body weight; the unit is  $\mu\text{g}/\text{kg}$  of body weight.

### **3.4 Maximum residue limit (MRL)**

After the drug is administered to food-producing animals, the maximum amount/concentration of the veterinary drug residue, which is allowed to exist on the surface or inside of the food (in terms of fresh weight, expressed as  $\mu\text{g}/\text{kg}$ ).

### **3.5 Food-producing animal**

All animal species, for human consumption, OR their products, for human consumption.

### **3.6 Fish**

Refers to aquatic cold-blooded animals, including Pisces, Elasmobranchs, Cyclostomes, excluding aquatic mammals, invertebrates, amphibians. However, it shall be noted that this definition can be applied to certain invertebrates, especially cephalopods.

### **3.7 Poultry**

Domesticated poultry, including chickens, turkeys, ducks, geese, pigeons, quails.

### **3.8 Animal derived food**

Animal tissues for human consumption AND primary animal products, such as eggs, milk, honey.

### **3.9 Edible Tissues**

All edible animal tissues, including muscle, fat, liver, kidney and other organs.

### **3.10 Skin with fat**

Edible skin with fat.

### **3.11 Muscle with skin**

Generally, it refers to the muscle tissue, which has skin, of fish.

### **3.12 Byproducts**

All edible tissues, except muscle and fat, including liver, kidney, etc.

### **3.13 Edible offal**

Edible parts, except muscle, fat, liver, kidney.

### **3.14 Muscle**

Refers to muscle tissue only.

### **3.15 Egg**

Shell eggs, which are produced by domestic hens.

### **3.16 Milk**

Milk, which is secreted from normal breasts, through one or more milking, without additions or extractions. This term can also be used for milk, which has been processed without changing its composition, OR milk, which has been standardized for fat content, in accordance with national legislation.

### **3.17 All other food-producing species**

All food-producing species, other than those clearly specified under each species.

**This is an excerpt of the PDF (Some pages are marked off intentionally)**

**Full-copy PDF can be purchased from 1 of 2 websites:**

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, [Sales@ChineseStandard.net](mailto:Sales@ChineseStandard.net)

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

**----- The End -----**