



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

Ministry of Agriculture and Rural Affairs of the
People's Republic of China
National Health Commission of the People's
Republic of China
State Administration for Market Regulation

Release Date: Sept 6, 2019
Implementation Date : Apr 1, 2020

Translated by ChemLinked

Disclaimer

This is an unofficial document provided by **ChemLinked** (chemlinked.com), a platform of REACH24H Consulting Group, as an informational service to assist non-Chinese companies to better understand the Asia Pacific regulatory environment and importation compliance requirements especially China Chemical, Cosmetic, Food and Agrochemical regulatory issues.

This document should only be used as a reference and in case of any discrepancy between the English and Chinese versions the original Chinese version shall prevail.

Nondisclosure:

You may not disclose this document to anyone else without the written permission of ChemLinked.

For further clarification and questions, you can read our [Privacy Policies](#) or contact us at food@chemlinked.com



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

Date of publication: 2019-09-06

Date of implementation: 2020-04-01

Issue by Ministry of Agriculture and Rural Affairs of the People's Republic of China
 National Health Commission of the People's Republic of China
 State Administration for Market Regulation

ChemLinked Team, REACH24H Consulting Group | <http://food.chemlinked.com>

14F, #3 Bldg., Haichuang Technology Center, No. 1288 Wenyi West Road, Hangzhou, China. PC: 311121

Tel: +86 571 8710 3822 | Fax: +86 571 8700 7566 | Email: food@chemlinked.com

Contents

Preface.....	VIII
1 Scope.....	1
2 Normative References.....	1
3 Terms and Definitions.....	1
3.1 兽药残留 (Veterinary Drug Residue)	1
3.2 总残留 (Total Residue)	1
3.3 日允许摄入量 (Acceptable Daily Intake, ADI)	1
3.4 最大残留限量 (Maximum Residue Limit, MRL)	2
3.5 食品动物 (Food-Producing Animal)	2
3.6 鱼 (Fish)	2
3.7 家禽 (Poultry)	2
3.8 动物性食品 (Animal Derived Food)	2
3.9 可食性组织 (Edible Tissues)	2
3.10 皮+脂 (Skin with fat)	2
3.11 皮+肉 (Muscle with skin)	2
3.12 副产品 (Byproducts)	2
3.13 可食下水 (Edible offal)	2
3.14 肌肉 (Muscle)	3
3.15 蛋 (Egg)	3
3.16 奶 (Milk)	3
3.17 其他食品动物 (All other food producing species)	3
4 Technical Requirements.....	3
4.1 Veterinary drugs whose specified maximum residue limits have been approved in animal derived food.....	3
4.1.1 阿苯达唑 (Albendazole)	3
4.1.2 双甲脒 (Amitraz)	4
4.1.3 阿莫西林 (Amoxicillin)	4
4.1.4 氨苄西林 (Ampicillin)	5
4.1.5 氨丙啉 (Amprolium)	5
4.1.6 安普霉素 (Apramycin)	6
4.1.7 氨苯胂酸/洛克沙肼 (Arsanilic acid/Roxarsone)	6
4.1.8 阿维菌素 (Avermectin)	7
4.1.9 阿维拉霉素 (Avilamycin)	7
4.1.10 氮哌酮 (Azaperone)	8
4.1.11 杆菌肽 (Bacitracin)	8
4.1.12 青霉素/普鲁卡因青霉素 (Benzylpenicillin/Procaine benzylpenicillin)	9
4.1.13 倍他米松 (Betamethasone)	9
4.1.14 卡拉洛尔 (Carazolol)	10
4.1.15 头孢氨苄 (Cefalexin)	10
4.1.16 头孢喹肟 (Cefquinome)	10
4.1.17 头孢噻呋 (Ceftiofur)	11
4.1.18 克拉维酸 (Clavulanic acid)	11
4.1.19 氯羟吡啶 (Clopidol)	12
4.1.20 氯氰碘柳胺 (Closantel)	12
4.1.21 氯唑西林 (Cloxacillin)	13
4.1.22 黏菌素 (Colistin)	13
4.1.23 氟氯氰菊酯 (Cyfluthrin)	14

GB 31650-2019

4.1.24 三氟氯氰菊酯 (Cyhalothrin)	15
4.1.25 氯氰菊酯/α-氯氰菊酯 (Cypermethrin and alpha-Cypermethrin)	15
4.1.26 环丙氨嗪 (Cyromazine)	16
4.1.27 达氟沙星 (Danofloxacin)	1
4.1.28 癸氧喹酯 (Decoquate)	17
4.1.29 溴氰菊酯 (Deltamethrin)	17
4.1.30 越霉素 A (Destomycin A)	18
4.1.31 地塞米松 (Dexamethasone)	18
4.1.32 二嗪农 (Diazinon)	19
4.1.33 敌敌畏 (Dichlorvos)	19
4.1.34 地克珠利 (Diclazuril)	19
4.1.35 地昔尼尔 (Dicyclanil)	20
4.1.36 二氟沙星 (Difloxacin)	20
4.1.37 三氮脒 (Diminazene)	21
4.1.38 二硝托胺 (Dinitolmide)	22
4.1.39 多拉菌素 (Doramectin)	22
4.1.40 多西环素 (Doxycycline)	23
4.1.41 恩诺沙星 (Enrofloxacin)	23
4.1.42 乙酰氨基阿维菌素 (Eprinomectin)	24
4.1.43 红霉素 (Erythromycin)	25
4.1.44 乙氧酰胺苯甲酯 (Ethopabate)	25
4.1.45 非班太尔/芬苯达唑/奥芬达唑 (Fenbantel/Fenbendazole/Oxfendazole)	26
4.1.46 倍硫磷 (Fenthion)	26
4.1.47 氰戊菊酯 (Fenvalerate)	27
4.1.48 氟苯尼考 (Florfenicol)	27
4.1.49 氟佐隆 (Fluazuron)	28
4.1.50 氟苯达唑 (Flubendazole)	29
4.1.51 醋酸氟孕酮 (Flugestone Acetate)	29
4.1.52 氟甲喹 (Flumequine)	29
4.1.53 氟氯苯氰菊酯 (Flumethrin)	30
4.1.54 氟胺氰菊酯 (Fluvalinate)	31
4.1.55 庆大霉素 (Gentamicin)	31
4.1.56 常山酮 (Halofuginone)	32
4.1.57 咪多卡 (Imidocarb)	32
4.1.58 氮氨菲啶 (Isometamidium)	32
4.1.59 伊维菌素 (Ivermectin)	33
4.1.60 卡那霉素 (Kanamycin)	33
4.1.61 吉他霉素 (Kitasamycin)	34
4.1.62 拉沙洛西 (Lasalocid)	34
4.1.63 左旋咪唑 (Levamisole)	35
4.1.64 林可霉素 (Lincomycin)	35
4.1.65 马度米星铵 (Maduramicin ammonium)	36
4.1.66 马拉硫磷 (Malathion)	37
4.1.67 甲苯咪唑 (Mebendazole)	37
4.1.68 安乃近 (Metamizole)	37
4.1.69 莫能菌素 (Monensin)	38
4.1.70 莫昔克丁 (Moxidectin)	39
4.1.71 甲基盐霉素 (Narasin)	39

GB 31650-2019

4.1.72 新霉素 (Neomycin)	40
4.1.73 尼卡巴嗪 (Nicarbazin)	40
4.1.74 硝碘酚腈 (Nitroxinil)	41
4.1.75 喹乙醇 (Olaquinox)	41
4.1.76 苯唑西林 (Oxacillin)	42
4.1.77 奥苯达唑 (Oxibendazole)	42
4.1.78 噁唑酸 (Oxolinic acid)	42
4.1.79 土霉素/金霉素/四环素 (Oxytetracycline/Chlortetracycline/Tetracycline)	43
4.1.80 辛硫磷 (Phoxim)	44
4.1.81 哌嗪 (Piperazine)	44
4.1.82 吡利霉素 (Pirlimycin)	44
4.1.83 巴胺磷 (Propetamphos)	45
4.1.84 碘醚柳胺 (Rafoxanide)	1
4.1.85 氯苯胍 (Robenidine)	46
4.1.86 盐霉素 (Salinomycin)	46
4.1.87 沙拉沙星 (Sarafloxacin)	47
4.1.88 赛杜霉素 (Semduramicin)	47
4.1.89 大观霉素 (Spectinomycin)	48
4.1.90 螺旋霉素 (Spiramycin)	48
4.1.91 链霉素/双氢链霉素 (Streptomycin/Dihydrostreptomycin)	49
4.1.92 磺胺二甲嘧啶 (Sulfadimidine)	49
4.1.93 磺胺类 (Sulfonamides)	50
4.1.94 噻苯达唑 (Thiabendazole)	50
4.1.95 甲砒霉素 (Thiamphenicol)	51
4.1.96 泰妙菌素 (Tiamulin)	51
4.1.97 替米考星 (Tilmicosin)	52
4.1.98 托曲珠利 (Toltrazuril)	53
4.1.99 敌百虫 (Trichlorfon)	53
4.1.100 三氯苯达唑 (Triclabendazole)	54
4.1.101 甲氧苄啶 (Trimethoprim)	54
4.1.102 泰乐菌素 (Tylosin)	55
4.1.103 泰万菌素 (Tylvalosin)	56
4.1.104 维吉尼亚霉素 (Virginiamycin)	56
4.2 Veterinary drugs that are allowed to be used in food-producing animal, but are not required for establishment of residue limits.	57
4.2.1 醋酸 (Acetic Acid)	57
4.2.2 安络血 (Adrenosem)	57
4.2.3 氢氧化铝 (Aluminium hydroxide)	57
4.2.4 氯化铵 (Ammonium Chloride)	57
4.2.5 安普霉素 (Apramycin)	57
4.2.6 青蒿琥酯 (Artesunate)	57
4.2.7 阿司匹林 (Aspirin)	57
4.2.8 阿托品 (Atropine)	57
4.2.9 甲基吡啶磷 (Azamethiphos)	58
4.2.10 苯扎溴铵 (Benzalkonium Bromide)	58
4.2.11 小檗碱 (Berberine)	58
4.2.12 甜菜碱 (Betaine)	58
4.2.13 碱式碳酸铋 (Bismuth subcarbonate)	58

GB 31650-2019

4.2.14 碱式硝酸铋 (Bismuth subnitrate)	58
4.2.15 硼砂 (Borax)	58
4.2.16 硼酸及其盐 (Boric acid and borates)	58
4.2.17 咖啡因 (Caffeine)	58
4.2.18 硼葡萄糖酸钙 (Calcium borogluconate)	58
4.2.19 碳酸钙 (Calcium carbonate)	59
4.2.20 氯化钙 (Calcium chloride)	59
4.2.21 葡萄糖酸钙 (Calcium gluconate)	59
4.2.22 磷酸氢钙 (Calcium Hydrogen Phosphate)	59
4.2.23 次氯酸钙 (Calcium Hypochlorite)	59
4.2.24 泛酸钙 (Calcium pantothenate)	59
4.2.25 过氧化钙 (Calcium Peroxide)	59
4.2.26 磷酸钙 (Calcium phosphate)	59
4.2.27 硫酸钙 (Calcium sulphate)	59
4.2.28 樟脑 (Camphor)	59
4.2.29 氯己定 (Chlorhexidine)	59
4.2.30 含氯石灰 (Chlorinated Lime)	60
4.2.31 亚氯酸钠 (Chlorite Sodium)	60
4.2.32 氯甲酚 (Chlorocresol)	60
4.2.33 胆碱 (Choline)	60
4.2.34 枸橼酸 (Citrate)	60
4.2.35 氯前列醇 (Cloprostenol)	60
4.2.36 硫酸铜 (Copper Sulfate)	60
4.2.37 可的松 (Cortisone)	60
4.2.38 甲酚 (Cresol)	60
4.2.39 癸甲溴铵 (Deciquam)	60
4.2.40 癸氧喹酯 (Decoquinat)	61
4.2.41 地克珠利 (Diclazuril)	61
4.2.42 二巯基丙醇 (Dimercaprol)	61
4.2.43 二甲硅油 (Dimethicone)	61
4.2.44 度米芬 (Domiphen)	61
4.2.45 干酵母 (Dried Yeast)	61
4.2.46 肾上腺素 (Epinephrine)	61
4.2.47 马来酸麦角新碱 (Ergometrine maleate)	61
4.2.48 酚磺乙胺 (Etamsylate)	61
4.2.49 乙醇 (Ethanol)	62
4.2.50 硫酸亚铁 (Ferrous sulphate)	62
4.2.51 氟氯苯氧菊酯 (Flumethrin)	62
4.2.52 氟轻松 (Fluocinonide)	62
4.2.53 叶酸 (Folic acid)	62
4.2.54 促卵泡素 (各种动物天然 FSH 及其化学合成类似物) (Follicle stimulating hormone (natural FSH from all species and their synthetic analogues))	62
4.2.55 甲醛 (Formaldehyde)	62
4.2.56 甲酸 (Formic acid)	62
4.2.57 明胶 (Gelatin)	62
4.2.58 葡萄糖 (Glucose)	63
4.2.59 戊二醛 (Glutaraldehyde)	63
4.2.60 甘油 (Glycerol)	63

GB 31650-2019

4.2.61 垂体促性腺激素释放激素 (Gonadotrophin releasing hormone)	63
4.2.62 月苳三甲氯铵 (Halimide)	63
4.2.63 绒促性素 (Human chorion gonadotrophin)	63
4.2.64 盐酸 (Hydrochloric acid)	63
4.2.65 氢氯噻嗪 (Hydrochlorothiazide)	63
4.2.66 氢化可的松 (Hydrocortisone)	63
4.2.67 过氧化氢 (Hydrogen peroxide)	63
4.2.68 鱼石脂 (Ichthammol)	64
4.2.69 苯噻唑 (Idazoxan)	64
4.2.70 碘和碘无机化合物包括: 碘化钠和钾、碘酸钠和钾 (Iodine and iodine inorganic compounds including: Sodium and potassium-iodide, Sodium and potassium-iodate)	64
4.2.71 右旋糖酐铁 (Iron dextran)	64
4.2.72 白陶土 (Kaolin)	64
4.2.73 氯胺酮 (Ketamine)	64
4.2.74 乳糖酶 (Lactasin)	64
4.2.75 乳酸 (Lactic acid)	64
4.2.76 利多卡因 (Lidocaine)	64
4.2.77 促黄体素 (各种动物天然 LH 及其化学合成类似物) (Luteinising hormone (natural LH from all species and their synthetic analogues))	64
4.2.78 氯化镁 (Magnesium chloride)	65
4.2.79 氧化镁 (Magnesium Oxide)	65
4.2.80 硫酸镁 (Magnesium Sulfate)	65
4.2.81 甘露醇 (Mannitol)	65
4.2.82 药用炭 (Medicinal Charcoal)	65
4.2.83 甲萘醌 (Menadione)	65
4.2.84 蛋氨酸碘 (Methionine Iodine)	65
4.2.85 亚甲蓝 (Methylthioninium Chloride)	65
4.2.86 萘普生 (Naproxen)	65
4.2.87 新斯的明 (Neostigmine)	65
4.2.88 中性电解氧化水 (Neutralized Eletrolyzed Oxidized water)	65
4.2.89 烟酰胺 (Nicotinamide)	66
4.2.90 烟酸 (Nicotinic Acid)	66
4.2.91 去甲肾上腺素 (Norepinephrine Bitartrate)	66
4.2.92 辛氨乙酰胺 (Octicine)	66
4.2.93 缩宫素 (Oxytocin)	66
4.2.94 对乙酰氨基酚 (Paracetamol)	66
4.2.95 石蜡 (Paraffin)	66
4.2.96 胃蛋白酶 (Pepsin)	66
4.2.97 过氧乙酸 (Peracetic Acid)	66
4.2.98 苯酚 (Phenol)	66
4.2.99 聚乙二醇 (分子量范围从 200 到 10000) (Polyethylene glycols (molecular weight ranging from 200 to 10000))	66
4.2.100 吐温-80 (Polysorbate 80)	67
4.2.101 垂体后叶 (Posterior Pituitary)	67
4.2.102 硫酸铝钾 (Potassium Aluminium sulfate)	67
4.2.103 氯化钾 (Potassium Chloride)	67
4.2.104 高锰酸钾 (Potassium Permanganate)	67
4.2.105 过硫酸氢钾 (Potassium Peroxymonosulphate)	67

GB 31650-2019

4.2.106 硫酸钾 (Potassium Sulfate)	67
4.2.107 聚维酮碘 (Povidone Iodine)	67
4.2.108 碘解磷定 (Pralidoxime Iodide)	67
4.2.109 吡喹酮 (Praziquantel)	67
4.2.110 普鲁卡因 (Procaine)	68
4.2.111 黄体酮 (Progesterone)	68
4.2.112 双羟萘酸噻嘧啶 (Pyrantel embonate)	68
4.2.113 溶葡萄球菌酶 (Recombinant Lysostaphin)	68
4.2.114 水杨酸 (Salicylic acid)	68
4.2.115 东莨菪碱 (Scopolamine)	68
4.2.116 血促性素 (Serum Gonadotrophin)	68
4.2.117 碳酸氢钠 (Sodium Bicarbonate)	68
4.2.118 溴化钠 (Sodium Bromide)	68
4.2.119 氯化钠 (Sodium chloride)	69
4.2.120 二氯异氰尿酸钠 (Sodium dichloroisocyanurate)	69
4.2.121 二巯丙磺钠 (Sodium Dimercaptopropanesulfonate)	69
4.2.122 氢氧化钠 (Sodium Hydroxide)	69
4.2.123 乳酸钠 (Sodium Lactate)	69
4.2.124 亚硝酸钠 (Sodium Nitrite)	69
4.2.125 过硼酸钠 (Sodium Perborate)	69
4.2.126 过碳酸钠 (Sodium Percarbonate)	69
4.2.127 高碘酸钠 (Sodium Periodate)	69
4.2.128 焦亚硫酸钠 (Sodium pyrosulphite)	69
4.2.129 水杨酸钠 (Sodium salicylate)	69
4.2.130 亚硒酸钠 (Sodium selenite)	70
4.2.131 硬脂酸钠 (Sodium stearate)	70
4.2.132 硫酸钠 (Sodium Sulfate)	70
4.2.133 硫代硫酸钠 (Sodium thiosulphate)	70
4.2.134 软皂 (Soft Soap)	70
4.2.135 脱水山梨醇三油酸酯 (司盘 85) (Sorbitan trioleate)	70
4.2.136 山梨醇 (Sorbitol)	70
4.2.137 土的宁 (Strychnine)	70
4.2.138 愈创木酚磺酸钾 (Sulfogaiacol)	70
4.2.139 硫 (Sulphur)	70
4.2.140 丁卡因 (Tetracaine)	71
4.2.141 硫喷妥钠 (Thiopental sodium)	71
4.2.142 维生素 A (Vitamin A)	71
4.2.143 维生素 B ₁ (Vitamin B ₁)	71
4.2.144 维生素 B ₁₂ (Vitamin B ₁₂)	71
4.2.145 维生素 B ₂ (Vitamin B ₂)	71
4.2.146 维生素 B ₆ (Vitamin B ₆)	71
4.2.147 维生素 C (Vitamin C)	71
4.2.148 维生素 D (Vitamin D)	71
4.2.149 维生素 E (Vitamin E)	71
4.2.150 维生素 K ₁ (Vitamin K ₁)	72
4.2.151 赛拉嗪 (Xylazine)	72
4.2.152 赛拉唑 (Xylazole)	72
4.2.153 氧化锌 (Zinc oxide)	72

GB 31650–2019

4.2.154 硫酸锌 (Zinc sulphate)	72
4.3 Veterinary drugs that are allowed to be used for treatment but not detected in animal derived food.....	45
4.3.1 氯丙嗪 (Chlorpromazine)	72
4.3.2 地西泮 (安定) (Diazepam)	72
4.3.3 地美硝唑 (Dimetridazole)	73
4.3.4 苯甲酸雌二醇 (Estradiol Benzoate)	73
4.3.5 潮霉素 B (Hygromycin B)	73
4.3.6 甲硝唑 (Metronidazole)	73
4.3.7 苯丙酸诺龙 (Nadrolone Phenylpropionate)	73
4.3.8 丙酸睾酮 (Testosterone propionate)	73
4.3.9 赛拉嗪 (Xylzaine)	74
Index of English generic names for veterinary drugs.....	47

Preface

This standard replaces the relevant part of Announcement No. 235 of the Ministry of Agriculture “Maximum residue limits of veterinary drugs in animal derived foods”.

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

- added the definitions of terms “edible offal” and “all other food producing species”;
- added 13 kinds of veterinary drugs including avilamycin, *etc.*, and the residue limits thereof;
- added the residue limits of 28 kinds of veterinary drugs including albendazole, *etc.*;
- added the acceptable daily intakes of 15 kinds of veterinary drugs including amoxicillin, *etc.*;
- added 73 kinds of veterinary drugs including acetic acid, *etc.*, which are allowed to be used in food-producing animal, but are not required for the establishment of residue limits;
- revised the Chinese or English names of 17 kinds of veterinary drugs including acetylisovaleryltylosin, *etc.*;
- revised the acceptable daily intakes of 9 kinds of veterinary drugs including apramycin, *etc.*;
- revised the residue markers of 15 kinds of veterinary drugs including albendazole, *etc.*;
- revised the target tissues and residue limits of 29 kinds of veterinary drugs including avermectin, *etc.*;
- revised the provisions on the use of 23 kinds of veterinary drugs including amoxicillin, *etc.*;
- removed the residue limit of coumaphos;
- removed 6 kinds of veterinary drugs including amprolium, *etc.*, which are allowed to be used in food-producing animal, but are not required for the establishment of residue limits;
- no longer contained the list of prohibited drugs and compounds.

Maximum Residue Limits for Veterinary Drugs in Foods

1 Scope

This standard specifies the maximum residue limits of 104 kinds (classes) of veterinary drugs including albendazole, *etc.*, in animal derived food; specifies 154 kinds of veterinary drugs including acetic acid, *etc.*, which are allowed to be used in food-producing animal, but are not required for establishment of residue limits; specifies 9 kinds of veterinary drugs including chlorpromazine, *etc.*, which are allowed to be used for treatment but not detected in animal derived food.

This standard applies to the animal derived food related to maximum residue limits.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 兽药残留 (Veterinary Drug Residue)

The residue of all drug-related substances, including parent drug or/and its metabolites, in any edible part of animal derived products after the food-producing animal has received a veterinary medicine.

3.2 总残留 (Total Residue)

The sum of the parent drug or/and all its metabolites in any edible part of animal derived products after the food-producing animal has received a veterinary medicine.

3.3 日允许摄入量 (Acceptable Daily Intake, ADI)

The amount of a substance, expressed on a body weight basis, unit in $\mu\text{g/kg}$ body weight b, ingested daily from food or drinking water over a lifetime, which has no obvious hazard to health.



Free



Free trial



Standard



Corporate



Special

SUBSCRIBE TO CHEMLINKED NOW

REMOVE FOOD REGULATORY BARRIERS EXPEDITE ASIA MARKET ACCESS

- In-time regulatory information and market access requirements
- Supported by local and experienced technically adept technical team
- Strategic partnerships with competent authorities and industrial associations worldwide
- Customized consulting service for complete compliance solutions.

OUR SERVICES



Information

News, Alerts



Knowledge

Pedia-articles,
Regulatory Analysis, Market Insights, Reports



Databases

Regulatory Database,
English Translations, Lists/Inventories, Q&A



Training

Webinars, Online courses, Offline events



Solutions

Translation, Consultancy, Advertising,
Tailored Regulatory Report,
Business-matching services,
Tailored online and offline training