

No. 24/2013/TT-BYT

Hanoi, August 14, 2013

CIRCULAR**ON THE PROMULGATION OF THE REGULATION ON MAXIMUM LIMITS ON RESIDUES OF VETERINARY MEDICINES IN FOOD**

Pursuant to the Law of Food safety dated June 17, 2010;

Pursuant to the Government's Decree No. 38/2012/NĐ-CP dated April 25th 2012, detailing the implementation of a number of articles of the Law of Food safety;

Pursuant to the Government's Decree No. 63/2012/NĐ-CP dated August 31, 2012 defining the functions, tasks, powers and organizational structure of the Ministry of Health;

The Minister of Health promulgates a Circular on the promulgation of the Regulation on Maximum limits on residues of veterinary medicines in food

Article 1. Promulgating together with this Circular the Regulation on maximum limits on residues of veterinary medicines in food

Article 2. This Circular takes effect on October 01, 2013.

When corresponding National Technical Regulations are promulgated, the maximum limits on residues of veterinary medicines in food in such National Technical Regulations shall apply.

Part 2 of "Maximum limits on residues of veterinary medicines in food" promulgated together with the Decision No. 46/2007/QĐ-BYT dated December 19, 2007 of the Minister of Health on "Maximum limits on biological and chemical contaminations in food" is annulled from the effective date of this Circular.

Article 3. This Circular shall be amended to management requirements. Organizations and individuals are recommended to report the difficulties that arise during the implementation to the Ministry of Health (Vietnam Food Administration) for consideration and settlement.

Article 4. Vietnam Food Administration, specialized state management authorities, and relevant units are responsible for the implementation of this Circular./.

**PP THE MINISTER
DEPUTY MINISTER**

Nguyen Thanh Long

REGULATION**MAXIMUM LIMITS ON RESIDUES OF VETERINARY MEDICINE IN FOOD**

(promulgated together with the Circular No. 24/2013/TT-BYT dated August 14, 2013 of the Minister of Health)

Article 1. Scope of regulation

This Circular provides for the maximum limits on veterinary medicine residues in food that are produced at home or imported.

Article 2. Subjects of application

This Circular is applicable to the organizations and individuals that produce, prepare, process, sell, and import foods.

Article 3. Interpretation of terms

In this Circular, the terms below are construed as follows:

1. ADI stands for acceptable daily intake.
2. MRL stands for maximum residue limits.
3. UNS stands for unspecified.

Article 4. Maximum limits on residues of veterinary medicine in food

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
1	Abamectin (thuốc tẩy giun sán)	0-2	Avermectin B1a	Cattle liver	100
				Cattle kidney	50
				Cattle fat	100
2	Albendazole (anthelmintic)	0-50	2-aminosulfone metabolite (excluding unidentified milk)	Meat	100
				Liver	5000
				Kidney	5000
				Fat	100
				Milk (µg/l)	100
3	Amoxicillin (antibiotic)	0-0.07	Amoxicillin	Beef	50
				Cattle liver	50
				Cattle kidney	50
				Cattle fat	50
				Cow's milk	4
				Lamb and mutton	50
				Sheep liver	50
				Sheep kidney	50
				Sheep fat	50
				Sheep's milk	4
				Pork	50
				Swine liver	50
				Swine kidney	50
				Swine fat/skin	50
4	Avilamycin (antibiotic)	0-2	Dichloroisoeverni- c acid (DIA)	Pork	200
				Swine liver	300
				Swine kidney	200
				Swine fat/skin	200
				Chicken	200
				Chicken liver	300
				Chicken kidney	200
				Chicken fat/skin	200
				Turkey meat	200
				Turkey liver	300
				Turkey kidney	200
				Turkey fat/skin	200
				Rabbit meat	200
				Rabbit liver	300
				Rabbit kidney	200
				Rabbit fat/skin	200
5	Azaperone	0-6	Mixture of	Pork	60

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
	(anaesthetic)		Azaperone and Azaperol	Swine liver	100
				Swine kidney	100
				Swine fat	60
6	Benzylpenicillin /Procaine benzylpenicillin (antibiotic)	30 ^(*)	Benzylpenicillin	Beef	50
				Cattle liver	50
				Cattle kidney	50
				Cow's milk (µg/l)	4
				Chicken ⁽¹⁾	50
				Chicken liver ⁽¹⁾	50
				Chicken kidney ₍₁₎	50
				Pork	50
				Swine liver	50
				Swine kidney	50
7	Carazolol (beta-adreniceptor)	0-0.1	Carazolol	Pork	5
				Swine liver	25
				Swine kidney	25
				Swine fat/skin	5
8	Ceftiofur (antibiotic)	0-50	Desfuroylceftiofur	Beef	1000
				Cattle liver	2000
				Cattle kidney	6000
				Cattle fat	2000
				Cow's milk (µg/l)	100
				Pork	1000
				Swine liver	2000
				Swine kidney	6000
				Swine fat	2000
9	Chlortetracycline /Oxytetracycline/ Tetracycline (antibiotic)	0-30	Main substance, isolated or combined	Beef	200
				Cattle liver	600
				Cattle kidney	1200
				Cow's milk (µg/l)	100
				Fish ⁽²⁾	200
				(<i>Paeneus monodon</i>) ⁽²⁾	200
				Pork	200
				Swine liver	600
				Swine kidney	1200
				Poultry	200
				Poultry liver	600

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				Poultry kidney	1200
				Poultry egg	400
				Lamb and mutton	200
				Sheep liver	600
				Sheep kidney	1200
				Sheep's milk (µg/l)	100
10	Clenbuterol (adrenoceptor)	0-0.004	Clenbuterol	Beef	0.2
				Cattle liver	0.6
				Cattle kidney	0.6
				Cattle fat	0.2
				Cow's milk (µg/l)	0.05
				Horse meat	0.2
				Horse liver	0.6
				Horse kidney	0.6
				Horse fat	0.2
11	Closantel (anthelminthic)	0-30	Closantel	Beef	1000
				Cattle liver	1000
				Cattle kidney	3000
				Cattle fat	3000
				Lamb and mutton	1500
				Sheep liver	1500
				Sheep kidney	5000
				Sheep fat	2000
12	Colistin (antibiotic)	0-7	Mixture of Colistin A and Colistin B	Beef	150
				Cattle liver	150
				Cattle kidney	200
				Cattle fat	150
				Cow's milk (µg/l)	50
				Lamb and mutton	150
				Sheep liver	150
				Sheep kidney	200
				Sheep fat	150
				Sheep's milk (µg/l)	50
				Goat meat	150
				Goat liver	150

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				Goat kidney	200
				Goat fat	150
				Pork	150
				Swine liver	150
				Swine kidney	200
				Swine fat (including skin and fat)	150
				Chicken	150
				Chicken liver	150
				Chicken kidney	200
				Chicken fat (including skin and fat)	150
				Chicken eggs	300
				Turkey meat	150
				Turkey liver	150
				Turkey kidney	200
				Turkey fat (including skin and fat)	150
				Rabbit meat	150
				Rabbit liver	150
				Rabbit kidney	200
				Rabbit fat	150
13	Cyfluthrin (Pesticide)	0-20	Cyfluthrin	Beef	20
				Cattle liver	20
				Cattle kidney	20
				Cattle fat	200
				Cow's milk (µg/l)	40
14	Cyhalothrin (Pesticide)	0-5	Cyhalothrin	Beef	20
				Cattle liver	20
				Cattle kidney	20
				Cattle fat	400
				Cow's milk (µg/l)	30
				Pork	20
				Swine liver	20
				Swine kidney	20
				Swine fat	400
				Lamb and mutton	20

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				Sheep liver	50
				Sheep kidney	20
				Sheep fat	400
15	Cypermethrin và Alpha-cypermethrin (Pesticide)	0-20	Total residue of Cypermethrin <i>(result of the use of Cypermethrin or Alpha- cypermethrin as veterinary medicines)</i>	Beef	50
				Cattle liver	50
				Cattle kidney	50
				Cattle fat	1000
				Cow's milk (µg/l)	100
				Lamb and mutton	50
				Sheep liver	50
				Sheep kidney	50
				Sheep fat	1000
16	Danofloxacin (antibiotic)	0-20	Danofloxacin	Beef	200
				Cattle liver	400
				Cattle kidney	400
				Cattle fat	100
				Chicken	200
				Chicken liver	400
				Chicken kidney	400
				Chicken fat ⁽³⁾	100
				Pork	100
				Swine liver	50
				Swine kidney	200
				Swine fat	100
17	Deltamethrin (Pesticide)	0-10	Deltamethrin	Beef	30
				Cattle liver	50
				Cattle kidney	50
				Cattle fat	500
				Cow's milk (µg/l)	30
				Chicken	30
				Chicken liver	50
				Chicken kidney	50
				Chicken fat	500
				Chicken eggs	30
				Salmon flesh	30
				Lamb and mutton	30
				Sheep liver	50

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				Sheep kidney	50
				Sheep fat	500
18	Dexamethasone (glucocorticosteroid)	0-0.015	Dexamethasone	Beef	1
				Cattle liver	2
				Cattle kidney	1
				Cow's milk (µg/l)	0.3
				Pork	1
				Swine liver	2
				Swine kidney	1
				Horse meat	1
				Horse liver	2
				Horse kidney	1
19	Diclazuril (antiprotozoal agent)	0-30	Diclazuril	Poultry	500
				Poultry liver	3000
				Poultry kidney	2000
				Poultry egg	1000
				Rabbit meat	500
				Rabbit liver	3000
				Rabbit kidney	2000
				Rabbit fat	1000
				Lamb and mutton	500
				Sheep liver	3000
				Sheep kidney	2000
				Sheep fat	1000
20	Dicylanil (Pesticide)	0-7	Dicylanil	Lamb and mutton	150
				Sheep liver	125
				Sheep kidney	125
				Sheep fat	200
21	Dihydrostreptomycin/ Streptomycin (antibiotic)	0-50	Mixture of Dihydrostreptomyc in and Streptomycin	Beef	600
				Cattle liver	600
				Cattle kidney	1000
				Cattle fat	600
				Cow's milk (µg/l)	200
				Chicken	600
				Chicken liver	600
				Chicken kidney	1000
				Chicken fat	600

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				Pork	600
				Swine liver	600
				Swine kidney	1000
				Swine fat	600
				Lamb and mutton	600
				Sheep liver	600
				Sheep kidney	1000
				Sheep fat	600
				Sheep's milk (µg/l)	200
22	Diminazene (killing haemoparasites)	0-100	Diminazene	Beef	500
				Cattle liver	12000
				Cattle kidney	6000
				Cow's milk (µg/l)	150
23	Doramectin (anthelminthic)	0-1	Doramectin	Beef	10
				Cattle liver	100
				Cattle kidney	30
				Cattle fat	150
				Cow's milk (µg/l)	15
				Pork	5
				Swine liver	100
				Swine kidney	30
				Swine fat	150
24	Eprinomectin (anthelminthic)	0-10	Eprinomectin B1a	Beef	100
				Cattle liver	2000
				Cattle kidney	300
				Cattle fat	250
				Cow's milk (µg/l)	20
25	Erythromycin (antibiotic)	0-0.7	Erythromycin A	Chicken	100
				Chicken liver	100
				Chicken kidney	100
				Chicken fat (including skin and fat)	100
				Chicken eggs	50
				Turkey meat	100
				Turkey liver	100
				Turkey kidney	100

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				Turkey fat (including skin and fat)	100
26	Estradiol-17 beta (growth stimulants)	0-0.05	Estradiol-17 beta	Beef	UNS
				Cattle liver	
				Cattle kidney	
				Cattle fat	
27	Febantel /Fenbendazole /Oxfendazole (anthelminthic)	0-7	Mixture of Fenbendazole, Oxfendazole and Oxfendazole sulphone, expressed as Oxfendazole sulphone equivalents	Beef	100
				Cattle liver	500
				Cattle kidney	100
				Cattle fat	100
				Cow's milk (µg/l)	100
				Goat meat	100
				Goat liver	500
				Goat kidney	100
				Goat fat	100
				Horse meat	100
				Horse liver	500
				Horse kidney	100
				Horse fat	100
				Pork	100
				Swine liver	500
				Swine kidney	100
				Swine fat	100
				Lamb and mutton	100
				Sheep liver	500
				Sheep kidney	100
				Sheep fat	100
				Sheep's milk (µg/l)	100
28	Fluazuron (Pesticide)	0-40	Fluazuron	Beef	200
				Cattle liver	500
				Cattle kidney	500
				Cattle fat	7000
29	Flubendazole (anthelminthic)	0-12	Flubendazole	Pork	10
				Swine liver	10
				Poultry	200
				Poultry liver	500
				Poultry egg	400
30	Flumequine	0-30	Flumequine	Beef	500

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
	(antibiotic)			Cattle liver	500
				Cattle kidney	3000
				Cattle fat	1000
				Chicken	500
				Chicken liver	500
				Chicken kidney	3000
				Chicken fat	1000
				Pork	500
				Swine liver	500
				Swine kidney	3000
				Swine fat	1000
				Lamb and mutton	500
				Sheep liver	500
				Sheep kidney	3000
				Sheep fat	1000
				Salmon flesh ⁽⁴⁾	500
31	Gentamicin (antibiotic)	0-20	Gentamicin	Beef	100
				Cattle liver	2000
				Cattle kidney	5000
				Cattle fat	100
				Cow's milk (µg/l)	200
				Pork	100
				Swine liver	2000
				Swine kidney	5000
				Swine fat	100
32	Imidocarb (antiprotozoal agent)	0-10	Imidocarb	Beef	300
				Cattle liver	1500
				Cattle kidney	2000
				Cattle fat	50
				Cow's milk (µg/l)	50
33	Isometamidium (killing haemoparasites)	0-100	Isometamidium	Beef	100
				Cattle liver	500
				Cattle kidney	1000
				Cattle fat	100
				Cow's milk (µg/l)	100
34	Ivermectin (anthelmintic)	0-1	22,23- Dihydroavermectin	Cattle liver	100
				Cattle fat	40

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
			B1a (H2B1a)	Cow's milk (µg/l)	10
				Swine liver	15
				Swine fat	20
				Sheep liver	15
				Sheep fat	20
35	Levamisole (anthelmintic)	0-6	Levamisole	Beef	10
				Cattle liver	100
				Cattle kidney	10
				Cattle fat	10
				Poultry	10
				Poultry liver	100
				Poultry kidney	10
				Poultry egg	10
				Pork	10
				Swine liver	100
				Swine kidney	10
				Swine fat	10
				Lamb and mutton	10
				Sheep liver	100
				Sheep kidney	10
				Sheep fat	10
36	Lincomycin (antibiotic)	0-30	Lincomycin	Cow's milk	150
				Chicken	200
				Chicken liver	500
				Chicken kidney	500
				Chicken fat ⁽⁵⁾	100
				Pork	200
				Swine liver	500
				Swine kidney	1500
				Swine fat ⁽⁵⁾	100
37	Melengestrol Acetate (growth stimulants)	0-0.03	Melengestrol acetate	Chicken	1
				Chicken liver	10
				Chicken kidney	2
				Chicken fat	18
38	Monensin (antibiotic)	0-10	Monensin	Beef	10
				Cattle liver	100
				Cattle kidney	10
				Cattle fat	100
				Cow's milk	2

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				(µg/l)	
				Lamb and mutton	10
				Sheep liver	20
				Sheep kidney	10
				Sheep fat	100
				Goat meat	10
				Goat liver	20
				Goat kidney	10
				Goat fat	100
				Chicken	10
				Chicken liver	10
				Chicken kidney	10
				Chicken fat	100
				Turkey meat	10
				Turkey liver	10
				Turkey kidney	10
				Turkey fat	100
				Quail	10
				Quail liver	10
				Quail kidney	10
				Quail fat	100
39	Moxidectin (anthelmintic)	0-2	Moxidectin	Beef	20
				Cattle liver	100
				Cattle kidney	50
				Cattle fat	500
				Deer meat	20
				Deer liver	100
				Deer kidney	50
				Deer fat	500
				Lamb and mutton	50
				Sheep liver	100
				Sheep kidney	50
				Sheep fat	500
40	Narasin (antibiotic)	0-5	Narasin A	Beef	15
				Cattle liver	50
				Cattle kidney	15
				Cattle fat	50
				Chicken	15
				Chicken liver	50

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				Chicken kidney	15
				Chicken fat	50
				Pork	15
				Swine liver	50
				Swine kidney	15
				Swine fat	50
41	Neomycin (antibiotic)	0-60	Neomycin	Beef	500
				Cattle liver	500
				Cattle kidney	10000
				Cattle fat	500
				Cow's milk (µg/l)	1500
				Chicken	500
				Chicken liver	500
				Chicken kidney	10000
				Chicken fat	500
				Chicken eggs	500
				Duck meat	500
				Duck liver	500
				Duck kidney	10000
				Duck fat	500
				Goat meat	500
				Goat liver	500
				Goat kidney	10000
				Goat fat	500
				Pork	500
				Swine liver	500
				Swine kidney	10000
				Swine fat	500
				Lamb and mutton	500
				Sheep liver	500
				Sheep kidney	10000
				Sheep fat	500
				Turkey meat	500
				Turkey liver	500
				Turkey kidney	10000
				Turkey fat	500
42	Nicarbazin (antiprotozoal agent)	0-400	N,N'-bis(4-nitropheyl)urea	Chicken ^(b)	200
				Chicken liver ^(b)	200
				Chicken kidney	200

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				⁽⁶⁾	
				Chicken fat/skin ⁽⁶⁾	200
43	Phoxim (Pesticide)	0-4	Phoxim	Goat meat	50
				Goat liver	50
				Goat kidney	50
				Goat fat	400
				Pork	50
				Swine liver	50
				Swine kidney	50
				Swine fat	400
				Lamb and mutton	50
				Sheep liver	50
				Sheep kidney	50
				Sheep fat	400
44	Pirlimycin (antibiotic)	0-8	Pirlimycin	Beef	100
				Cattle liver	1000
				Cattle kidney	400
				Cattle fat	100
				Cow's milk (µg/l)	100
45	Porcine Somatotropin (growth stimulants)	UNS	UNS	Pork	UNS
				Swine liver	UNS
				Swine kidney	UNS
				Swine fat	UNS
46	Progesterone (growth stimulants)	0-30	Progesterone	Beef	UNS
				Cattle liver	
				Cattle kidney	
				Cattle fat	
47	Ractopamine (growth stimulants)	0-1	Ractopamine	Beef	10
				Cattle liver	40
				Cattle kidney	90
				Cattle fat	10
				Pork	10
				Swine liver	40
				Swine kidney	90
				Swine fat (including skin and fat)	10
48	Sarafloxacin (antibiotic)	0-0.3	Sarafloxacin	Chicken	10
				Chicken liver	80

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				Chicken kidney	80
				Chicken fat	20
				Turkey meat	10
				Turkey liver	80
				Turkey kidney	80
				Turkey fat	20
49	Spectinomycin (antibiotic)	0-40	Spectinomycin	Beef	500
				Cattle liver	2000
				Cattle kidney	5000
				Cattle fat	2000
				Cow's milk (µg/l)	200
				Chicken	500
				Chicken liver	2000
				Chicken kidney	5000
				Chicken fat	2000
				Chicken eggs	2000
				Pork	500
				Swine liver	2000
				Swine kidney	5000
				Swine fat	2000
				Lamb and mutton	500
				Sheep liver	2000
				Sheep kidney	5000
				Sheep fat	2000
50	Spiramycin (antibiotic)	0-50	- For cattle and chicken: mixture of Spiramycin and Neospiramycin - For swine: Spiramycin equivalents	Beef	200
				Cattle liver	600
				Cattle kidney	300
				Cattle fat	300
				Cow's milk (µg/l)	200
				Chicken	200
				Chicken liver	600
				Chicken kidney	800
				Chicken fat	300
				Pork	200
				Swine liver	600
				Swine kidney	300
				Swine fat	300
51	Sulfadimidine	0-50	Sulfadimidine	Cow's milk	25

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
	(antibiotic)			(µg/l)	
				Meat	100
				Liver	100
				Kidney	100
				Fat	100
52	Testosterone (growth stimulants)	0-2	Testosterone	Beef	UNS
				Cattle liver	
				Cattle kidney	
				Cattle fat	
53	Thiabendazole (anthelminthic)	0-100	Mixture of Thiabendazole and 5- hydroxythiabendazole	Beef	100
				Cattle liver	100
				Cattle kidney	100
				Cattle fat	100
				Cow's milk (µg/l)	100
				Goat meat	100
				Goat liver	100
				Goat kidney	100
				Goat fat	100
				Goat milk (µg/l)	100
				Pork	100
				Swine liver	100
				Swine kidney	100
				Swine fat	100
				Lamb and mutton	100
				Sheep liver	100
				Sheep kidney	100
				Sheep fat	100
54	Tilmicosin (antibiotic)	0-40	Tilmicosin	Beef	100
				Cattle liver	1000
				Cattle kidney	300
				Cattle fat	100
				Chicken	150
				Chicken liver	2400
				Chicken kidney	600
				Chicken fat/skin	250
				Pork	100
				Swine liver	1500
				Swine kidney	1000
				Swine fat	100

No.	Substance	ADI (µg/kg of body weight/day)	Main substance	Products	MRL (µg/kg)
				Lamb and mutton	100
				Sheep liver	1000
				Sheep kidney	300
				Sheep fat	100
				Turkey meat	100
				Turkey kidney	1200
				Turkey liver	1400
				Turkey fat/skin	250
55	Trenbolone Acetate (growth stimulants)	0-0.02	For beef: Beta-Trenbolone For cattle liver: Beta-Trenbolone	Beef	2
				Cattle liver	10
56	Trichlorfon (Metrifonate) (Pesticide)	0-2		Cow's milk (µg/l)	50
57	Triclabendazole (anthelmintic)	0-3	Ketotriclabendazole	Beef	250
				Cattle liver	850
				Cattle kidney	400
				Cattle fat	100
				Lamb and mutton	200
				Sheep liver	300
				Sheep kidney	200
				Sheep fat	100
58	Tylosin (antibiotic)	0-30	Tylosin A	Beef	100
				Cattle liver	100
				Cattle kidney	100
				Cattle fat	100
				Cow's milk (µg/l)	100
				Pork	100
				Swine liver	100
				Swine kidney	100
				Swine fat	100
				Chicken	100
				Chicken liver	100
				Chicken kidney	100
				Chicken fat/skin	100
				Chicken eggs	300
59	Zeranol (growth stimulants)	0-0.5	Zeranol	Beef	2
				Cattle liver	10

Notes:

(*) Expressed as $\mu\text{g}/\text{person}/\text{day}$

(1) Only applicable to procaine benzylpenicillin

(2) Only applicable to oxytetracycline

(3) Normal ratio of fat to skin

(4) Meat with a normal ratio of skin

(5) MRL for skin with fat is $300 \mu\text{g}/\text{kg}$

(6) Applicable to chicken

Article 5. Implementation**1. Responsibilities of organizations and individuals**

Organizations and individuals may only produce, sell foods in Vietnam, or import foods into Vietnam after satisfying the requirements in Article 4 of this Regulation.

2. Responsibility of managing authorities

Vietnam Food Administration shall cooperate with specialized state management authorities, in organizing the implementation of this Circular.

**PP THE MINISTER
DEPUTY MINISTER**

Nguyen Thanh Long