

PHILIPPINE NATIONAL STANDARD

PNS/BAFPS 48:2007
ICS 11.220

**Veterinary drug residues in food: Maximum residue
limits (MRLs)**



BUREAU OF PRODUCT STANDARDS

Foreword

The formulation of this Philippine National Standards for Veterinary Drug Residues in Food: Maximum Residue Limits (MRLs) took into account MRLs set by the Codex Alimentarius Commission (CAC).

The Bureau of Agriculture and Fisheries Product Standards pursued the adoption of the Codex MRLs as a national regulation to ensure harmonization at the international level and to establish food safety standard. BAFPS tapped various experts, stakeholders and agencies concerned to generate inputs, comments, and suggestions as a means of verification prior to the standards' approval.

Veterinary drug residues in food: Maximum residue limits (MRLs)

1 Records

Abamectin <i>(used also as pesticide)</i>				
<i>Species</i>	<i>Tissue</i>	<i>MRL</i> <i>($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
Cattle	Kidney	50		
	Liver	100		
	Fat	100		
Albendazole				
Not specified	Milk (/l)	100		
	Muscle	100		
	Liver	5000		
	Fat	100		
	Kidney	5000		
Azaperone				
Pig	Muscle	60		
	Kidney	100		
	Liver	100		
	Fat	60		
Benzylpenicillin/Procaine benzylpenicillin				
Cattle	Liver	50		
	Milk (/l)	4		
	Kidney	50		
	Muscle	50		
Pig	Kidney	50		
	Muscle	50		
	Liver	50		
Chicken	Kidney	50		Applies to procaine benzylpenicillin only.
	Muscle	50		Applies to procaine benzylpenicillin only.
	Liver	50		Applies to procaine benzylpenicillin only.
Carazolol				
Pig	Muscle	5		The concentration at the injection site two hours after treatment may result in an intake that exceeds the acute RfD and therefore, an appropriate withdrawal period should be applied.

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
	Liver	25		
	Fat/Skin	5		The concentration at the injection site two hours after treatment may result in an intake that exceeds the acute RfD and therefore, an appropriate withdrawal period should be applied.
Ceftiofur				
Cattle	Muscle	1000		
	Fat	2000		
	Milk (/l)	100		
	Liver	2000		
	Kidney	6000		
Pig	Fat	2000		
	Liver	2000		
	Muscle	1000		
	Kidney	6000		
Chlortetracycline/Oxytetracycline/Tetracycline				
Cattle	Liver	600		
	Muscle	200		
	Milk (/l)	100		
	Kidney	1200		
Pig	Liver	600		
	Kidney	1200		
	Muscle	200		
Sheep	Milk (/l)	100		
	Muscle	200		
	Kidney	1200		
	Liver	600		
Poultry	Eggs	400		
	Liver	600		
Fish	Muscle	200		Applies only to oxytetracycline.
Giant prawn	Muscle	200		Applies only to oxytetracycline.
Clenbuterol				
Cattle	Fat	200		Due to the potential abuse of this drug, the MRLs are recommended only when associated with a nationally approved therapeutic use, such as tocolysis or as an adjunct therapy in respiratory diseases.

<i>Species</i>	<i>Tissue</i>	<i>MRL (ng/kg)</i>	<i>Symbols</i>	<i>Footnote</i>
	Milk (/l)	50		Due to the potential abuse of this drug, the MRLs are recommended only when associated with a nationally approved therapeutic use, such as tocolysis or as an adjunct therapy in respiratory diseases.
	Liver	600		Due to the potential abuse of this drug, the MRLs are recommended only when associated with a nationally approved therapeutic use, such as tocolysis or as an adjunct therapy in respiratory diseases.
	Kidney	600		Due to the potential abuse of this drug, the MRLs are recommended only when associated with a nationally approved therapeutic use, such as tocolysis or as an adjunct therapy in respiratory diseases.
Horse	Kidney	600		Due to the potential abuse of this drug, the MRLs are recommended only when associated with a nationally approved therapeutic use, such as tocolysis or as an adjunct therapy in respiratory diseases.
	Fat	200		Due to the potential abuse of this drug, the MRLs are recommended only when associated with a nationally approved therapeutic use, such as tocolysis or as an adjunct therapy in respiratory diseases.
	Liver	600		Due to the potential abuse of this drug, the MRLs are recommended only when associated with a nationally approved therapeutic use, such as tocolysis or as an adjunct therapy in respiratory diseases.
Closantel				
Cattle	Kidney	3000		
	Fat	3000		
	Liver	1000		
	Muscle	1000		
Sheep	Liver	1500		
	Kidney	5000		
	Fat	2000		
	Muscle	1500		
Cyfluthrin (used also as pesticide)				
	Muscle	20		
	Liver	20		

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
	Fat	200		
Cyhalothrin <i>(used also as pesticide)</i>				
Cattle	Fat	400		
	Muscle	20		
	Liver	20		
	Kidney	20		
	Milk	30		
Pig	Muscle	20		
	Liver	20		
	Kidney	20		
	Fat	400		
Sheep	Muscle	20		
	Liver	50		
	Kidney	20		
	Fat	400		
Cypermethrin and alpha-cypermethrin				
<i>Species</i>	<i>Tissue</i>	<i>null ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
Cattle	Liver	50		
	Fat	1000		
	Kidney	50		
	Milk	100		
	Muscle	50		
Sheep	Fat	1000		
	Kidney	50		
	Muscle	50		
	Liver	50		
Danofloxacin				
Cattle	Fat	100		
	Kidney	400		
	Liver	400		
	Muscle	200		
Pig	Muscle	100		
	Liver	50		
	Kidney	200		
	Fat	100		
Chicken	Fat	100		Fat/skin in normal proportion.
	Muscle	200		
	Liver	400		
	Kidney	400		

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
Deltamethrin <i>(used also as pesticide)</i>				
	Muscle	30		
	Fat	500		
	Kidney	50		
	Milk	30		
Sheep	Fat	500		
	Kidney	50		
	Liver	50		
	Muscle	30		
Chicken	Muscle	30		
	Liver	50		
	Eggs	30		
	Kidney	50		
Salmon	Muscle	30		
Diclazuril				
Sheep	Kidney	2000		
	Fat	1000		
	Muscle	500		
	Liver	3000		
Rabbit	Fat	1000		
	Kidney	2000		
	Liver	3000		
	Muscle	500		
Poultry	Kidney	2000		
	Liver	3000		
	Muscle	500		
	Fat/Skin	1000		
Dicyclanil				
Sheep	Fat	200		
	Muscle	150		
	Liver	125		
	Kidney	125		
Dihydrostreptomycin/Streptomycin				
	Kidney	1000		
	Fat	600		
	Liver	600		
	Muscle	600		
Pig	Kidney	1000		
	Liver	600		

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
	Muscle	600		
	Liver	600		
	Kidney	1000		
	Fat	600		
	Kidney	1000		
	Fat	600		
	Muscle	600		
Diminazene				
Cattle	Kidney	6000		
	Muscle	500		
	Milk (/l)	150		Limit of quantitation of the analytical method.
	Liver	12000		
Doramectin				
Cattle	Kidney	30		
	Liver	100		
	Muscle	10		High concentration of residues at the injection site over a 35 day period after subcutaneous or intramuscular administration of the drug at the recommended dose.
	Milk	15		Depending on the route and/or time of administration the use of doramectin in dairy cows may result in extended withdrawal periods in milk. This may be addressed in national/regional regulatory programmes.
	Fat	150		High concentration of residues at the injection site over a 35 day period after subcutaneous or intramuscular administration of the drug at the recommended dose.
Pig	Kidney	30		
	Liver	100		
	Muscle	5		
	Fat	150		
Eprinomectin				
Cattle	Muscle	100		
	Kidney	300		
	Liver	2000		
	Milk (/l)	20		
	Fat	250		

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
Estradiol-17beta				
	Kidney	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.
	Liver	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.
	Muscle	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.
Febantel/Fenbendazole/Oxfendazole				
Cattle	Liver	500		
	Muscle	100		
	Milk (/l)	100		
	Kidney	100		
	Fat	100		
Pig	Liver	500		
	Kidney	100		
	Fat	100		
	Muscle	100		
Sheep	Muscle	100		
	Fat	100		
	Milk (/l)	100		
	Liver	500		
	Kidney	100		
Goat	Liver	500		
	Kidney	100		
	Fat	100		
	Muscle	100		
Horse	Liver	500		
	Kidney	100		
	Fat	100		
	Muscle	100		
Fluazuron				
Cattle	Muscle	200		
	Liver	500		
	Kidney	500		
	Fat	7000		

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
Flubendazole				
	Liver	10		
Poultry	Muscle	200		
	Liver	500		
	Eggs	400		
Flumequine				
Cattle	Muscle	500		
	Kidney	3000		
	Fat	1000		
	Liver	500		
Pig	Muscle	500		
	Fat	1000		
	Kidney	3000		
	Liver	500		
Sheep	Kidney	3000		
	Liver	500		
	Muscle	500		
	Fat	1000		
Chicken	Kidney	3000		
	Liver	500		
	Muscle	500		
	Fat	1000		
Trout	Muscle	500		Muscle including normal proportion of skin
Gentamicin				
Cattle	Muscle	100		
	Kidney	5000		
	Liver	2000		
	Milk (/l)	200		
	Fat	100		
Pig	Fat	100		
	Kidney	5000		
	Liver	2000		
	Muscle	100		
Imidocarb				
Cattle	Kidney	2000		
	Liver	1500		
	Muscle	300		
	Milk	50		
	Fat	50		

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
Isometamidium				
	Kidney	1000		
	Liver	500		
	Muscle	100		
	Milk (/l)	100		
Ivermectin				
Cattle	Milk	10		
	Liver	100		
	Fat	40		
Pig	Liver	15		
	Fat	20		
Sheep	Liver	15		
	Fat	20		
Levamisole				
Cattle	Muscle	10		
	Liver	100		
	Kidney	10		
	Fat	10		
Pig	Kidney	10		
	Liver	100		
	Muscle	10		
	Fat	10		
Sheep	Liver	100		
	Fat	10		
	Kidney	10		
	Muscle	10		
Poultry	Liver	100		
	Fat	10		
	Kidney	10		
	Muscle	10		
Lincomycin				
Cattle	Milk	150		
Pig	Liver	500		
	Kidney	1500		
	Muscle	200		
	Fat	100		Additional MRL for skin with adhering fat of 300 $\mu\text{g}/\text{Kg}$.
Chicken	Fat	100		Additional MRL for skin with adhering fat of 300 $\mu\text{g}/\text{Kg}$.
	Liver	500		

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
	Muscle	200		
Moxidectin				
Cattle	Kidney	50		
	Liver	100		
	Muscle	20		Very high concentration and great variation in the level of residues at the injection site in cattle over a 49 day period after dosing.
	Fat	500		
Sheep	Fat	500		
	Muscle	50		
	Liver	100		
Deer	Fat	500		
	Kidney	50		
	Muscle	20		
	Liver	100		
Neomycin				
Cattle	Kidney	10000		
	Liver	500		
	Muscle	500		
	Fat	500		
	Milk	1500		
Pig	Fat	500		
	Kidney	10000		
	Liver	500		
	Muscle	500		
Sheep	Muscle	500		
	Liver	500		
	Kidney	10000		
	Fat	500		
Goat	Fat	500		
	Kidney	10000		
	Liver	500		
	Muscle	500		
Chicken	Liver	500		
	Muscle	500		
	Fat	500		
	Eggs	500		
	Kidney	10000		
Turkey	Liver	500		
	Muscle	500		
	Kidney	10000		

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
Duck	Muscle	500		
	Fat	500		
	Kidney	10000		
	Liver	500		
Nicarbazin				
Chicken	Fat/Skin	200		Broilers.
	Muscle	200		Broilers.
	Liver	200		Broilers.
	Kidney	200		Broilers.
Phoxim (used also as pesticide)				
Pig	Muscle	50		
	Liver	50		
	Kidney	50		
	Fat	400		
Sheep	Kidney	50		
	Liver	50		
	Muscle	50		
	Fat	400		
Goat	Muscle	50		
	Fat	400		
	Kidney	50		
	Liver	50		
Pirlimycin				
<i>Species</i>	<i>Tissue</i>	<i>null ($\mu\text{g}/\text{kg}$)</i>	<i><u>Symbols</u></i>	<i>Footnote</i>
Cattle	Muscle	100		
	Liver	1000		
	Kidney	400		
	Fat	100		
	Milk	200		JECFA evaluated the effect of pirlimycin residues on starter cultures and for this reason recommended an MRL of 100 $\mu\text{g}/\text{kg}$ of milk. Codex Members may therefore adapt national/regional MRLs in order to address this technological aspect for trade of fresh liquid milk intended for processing using starter culture.
Porcine somatotropin				
Pig	Fat	not specified		
	Kidney	not specified		

<i>Species</i>	<i>Tissue</i>	<i>MRL (µg/kg)</i>	<i>Symbols</i>	<i>Footnote</i>
	Muscle	not specified		
Progesterone				
Cattle	Muscle	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.
	Liver	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.
	Kidney	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.
	Fat	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.
Sarafloxacin				
Chicken	Muscle	10		
	Liver	80		
	Fat	20		
	Kidney	80		
Turkey	Fat	20		
	Kidney	80		
	Liver	80		
	Muscle	10		
Spectinomycin				
Cattle	Muscle	500		
	Milk (/l)	200		
	Liver	2000		
	Fat	2000		
	Kidney	5000		
Pig	Kidney	5000		
	Liver	2000		
	Muscle	500		
	Fat	2000		
Sheep	Fat	2000		
	Kidney	5000		
	Liver	2000		
	Muscle	500		

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
	Kidney	5000		
	Liver	2000		
	Muscle	500		
	Eggs	2000		
Spiramycin				
Cattle	Kidney	300		
	Liver	600		
	Milk (/l)	200		
	Muscle	200		
	Fat	300		
Pig	Kidney	300		
	Liver	600		
	Muscle	200		
	Fat	300		
Chicken	Fat	300		
	Kidney	800		
	Liver	600		
	Muscle	200		
Sulfadimidine				
Cattle	Milk (/l)	25		
Not specified	Fat	100		
	Kidney	100		
	Liver	100		
	Muscle	100		
Testosterone				
Cattle	Muscle	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.
	Liver	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.
	Kidney	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
	Fat	unnecessary		Residues resulting from the use of this substances as a growth promoter in accordance with good animal husbandry practice are unlikely to pose a hazard to human health.
Thiabendazole <i>(used also as pesticide)</i>				
	Kidney	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Milk (/l)	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Liver	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Muscle	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
Pig	Liver	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Kidney	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Muscle	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Fat	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
Sheep	Kidney	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Liver	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Muscle	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Fat	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
Goat	Fat	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.

<i>Species</i>	<i>Tissue</i>	<i>MRL ($\mu\text{g}/\text{kg}$)</i>	<i>Symbols</i>	<i>Footnote</i>
	Milk (/l)	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Liver	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
	Muscle	100		The MRL also covers residues derived from feed containing the residues resulted from agricultural use.
Tilmicosin				
Cattle	Fat	100		
	Kidney	300		
	Muscle	100		
	Liver	1000		
Pig	Muscle	100		
	Liver	1500		
	Kidney	1000		
	Fat	100		
Sheep	Milk (/l)	50	T	
	Kidney	300		
	Fat	100		
	Liver	1000		
	Muscle	100		
Trenbolone acetate				
Cattle	Liver	10		
	Muscle	2		
Trichlorfon (Metrifonate) <i>(used also as pesticide)</i>				
Cattle	Milk	50		
Triclabendazole				
Cattle	Liver	300		
	Muscle	200		
	Kidney	300		
Sheep	Kidney	100		
	Muscle	100		
	Liver	100		
	Fat	100		
Zeranol				
Cattle	Liver	10		
	Muscle	2		