CODEX ALIMENTARIUS COMMISSION



Food and Agriculture Organization of the United Nations



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CL 2021/98-RVDF December 2021

 TO:
 Codex Contact Points

 Contact Points of international organizations having observer status with Codex

 FROM:
 Secretariat,

 Codex Alimentarius Commission

 Joint FAO/WHO Food Standards Programme

SUBJECT: Request for comments on proposed maximum residue limits for veterinary drugs extrapolated to one or more species

DEADLINE: 25 March 2022

BACKGROUND

- The 25th Session of the Codex Committee on Residues of Veterinary Drugs in Foods (CCRVDF25, 2021) agreed¹ to forward the Approach for the extrapolation of maximum residue limits for veterinary drugs to one or more species to the Codex Alimentarius Commission for adoption and inclusion as Annex C to the Risk Analysis Principle applied by CCRVDF. The 44th Session of the Commission (CAC44, 2021) adopted² the Approach as proposed by CCRVDF25.
- 2. CCRVDF25 further agreed to request the Codex Secretariat to issue the proposed extrapolated MRLs for comments through a circular letter (CL).
- 3. As agreed by CCRVDF25, an electronic working group chaired by the European Union, and co-chaired by Costa Rica, will discuss the extrapolated MRLs taking into account the comments submitted in response to this CL, and prepare revised proposals for consideration by CCRVDF26.

REQUEST FOR COMMENTS

- 4. Codex members and observers are invited to provide comments on the proposals for MRLs extrapolation for the different combinations of veterinary drugs/tissues as presented in the Annex of this CL³.
- 5. In submitting comments, Codex members and observers are invited to take account of the information provided in the tables for the respective veterinary drug and associated tissues, as in the Annex, and the *Approach for the Extrapolation of MRLs for Veterinary Drugs to One or More Species* available in REP21/RVDF25, Appendix III.

GUIDANCE ON THE PROVISION OF COMMENTS

- 6. Comments should be submitted through the Codex Contact Points of Codex members and observers using the OCS.
- 7. Points of Codex members and observers may log into the OCS and access the document open for comments by selecting "Enter" in the "My reviews" page, available after login to the system.
- 8. Other OCS resources, including, <u>Frequently Asked Questions (FAQs)</u>, as well as the user manual and short guide, can be found at: <u>http://www.fao.org/fao-who-codexalimentarius/resources/circular-letters/en/</u>.
- 9. For questions on the OCS, please contact <u>Codex-OCS@fao.org</u>.

¹ REP21/RVDF25, para. 105 & Appendix III:

Working documents for CCRVDF25 including the report of its Session are available on the CCRVDF25 webpage at: <u>http://www.fao.org/fao-who-codexalimentarius/meetings/detail/en/?meeting=CCRVDF&session=25</u>

² REP21/CAC44

Working documents for CAC44 including the report of its Session are available on the CAC44 webpage at: <u>https://www.fao.org/fao-who-codexalimentarius/meetings/detail/en/?meeting=CAC&session=44</u>

^{3 &}lt;u>Codex webpage/Circular Letters:</u> <u>http://www.fao.org/fao-who-codexalimentarius/resources/circular-letters/en/</u> <u>Codex webpage/CCRVDF/Circular Letters:</u> <u>https://www.fao.org/fao-who-codexalimentarius/committees/committee/related-circular-letters/en/?committee=CCRVDF</u>

<u>ANNEX</u>

MAXIMUM RESIDUE LIMITS FOR VETERINARY DRUGS EXTRAPOLATED TO ONE OR MORE SPECIES

1. Amoxicillin – proposed extrapolation to ruminants

For Information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Pig (µg/kg)	Finfish	
	Muscle	50	50	50	50**	
	Fat*	50	50	50	-	
	Liver	50	50	50	-	
	Kidney	50	50	50	-	
	Milk	4	4	-	-	
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes					
Is the marker residue the parent compound?	Yes					
What are the M:Ts	The JECFA report (WHO TRS 969(10)) establishes a microbiological ADI and indicates that the only microbiologically active residue is the parent substance. The M:T in all tissues and milk is therefore considered to be 1 in all species					
Can the MRLs be extrapolated to ruminants?	Yes, as the M:T identical MRLs	is 1 in all con already exist	nmodities an in 2 ruminan	d, in addition t species	٦,	
* /						

* Fat/skin for pigs** This value applies to finfish fillet

For comments

Amoxicillin MRLs extrapolated to ruminants

Muscle 50 µg/kg:

- Fat* 50 µg/kg:
- Liver 50 µg/kg:
- Kidney 50 µg/kg:
- Milk 4 µg/kg:
- * Fat/skin for pigs

2. Benzylpenicillin – proposed extrapolation to ruminants

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Pig (µg/kg)
	Muscle	50	50	50
	Fat	-	-	-
	Liver	50	50	50
	Kidney	50	50	50
	Milk	4	-	-
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes			
Is the marker residue the parent compound?	Yes			
What are the M:Ts	The JECFA report (WHO TRS 799(10)) uses a M:T of 1 in all tissues and milk of all species			
Can the MRLs be extrapolated to ruminants?	Yes, as the M:T i identical MRLs a	s 1 in all comm Iready exist in	odities and, ir 2 ruminant sp	addition, ecies

For comments

Benzylpenicillin MRLs extrapolated to ruminants

Muscle 50 µg/kg:

Fat - :

Liver 50 µg/kg:

Kidney 50 µg/kg:

Milk 4 µg/kg:

3. Tetracyclines – proposed extrapolation to ruminants

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Pigs (μg/kg)	Poultry (μg/kg)	Fish* (µg/kg)	Giant prawn* (µg/kg)
	Muscle	200	200	200	200	200	200
	Fat	-	-	-	-	-	-
	Liver	600	600	600	600	-	-
	Kidney	1200	1200	1200	1200	-	-
	Milk	100	100	-	-	-	-
	Eggs	-	-	-	400	-	
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes						
Is the marker residue the parent compound?	Yes						
What are the M:Ts	The JECFA report	(WHO TRS 8	388(10) uses	a M:T of 1 ir	n all tissues,	milk and egg	S
Can the MRLs be extrapolated to ruminants?	Yes, as the M:T is exist in 2 related	i 1 in all tissu ruminant sp	es, milk and ecies	eggs and, in	addition, ide	entical MRLs	already

* Applies only to oxytetracycline

For comments

Tetracyclines MRLs extrapolated to ruminants

 Muscle
 200 μg/kg:

 Fat
 :

 Liver
 600 μg/kg:

 Kidney
 1200 μg/kg:

 Milk
 100 μg/kg:

4. Cyhalothrin – proposed extrapolation to ruminants

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Pigs (µg/kg)	
	Muscle	20	20	20	
	Fat	400	400	400	
	Liver	20	50	20	
	Kidney	20	20	20	
	Milk	30	-	-	
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes				
Is the marker residue the parent compound?	Yes				
What are the M:Ts	The JECFA report (WHO TRS 900(10) uses the same M:T values in all species (1 in muscle, fat and milk, 0.06 in liver and 0.2 in kidney)				
Can the MRLs be extrapolated to ruminants?	Yes, as the M:Ts established for cattle and sheep are identical, the more conservative set of MRLs (cattle) can be extrapolated to other ruminants. As the M:T for cattle milk is 1, the MRL can be extrapolated to milk of other ruminants				

For comments

Cyhalothrin MRLs extrapolated to ruminants

 Muscle
 20 μg/kg:

 Fat
 400 μg/kg:

 Liver
 20 μg/kg:

 Kidney
 20 μg/kg:

 Milk
 30 μg/kg:

5. Cypermethrin – proposed extrapolation to ruminants

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)		
	Muscle	50	50		
	Fat	1000	1000		
	Liver	50	50		
	Kidney	50	50		
	Milk	100	-		
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes				
Is the marker residue the parent compound?	Yes				
What are the M:Ts	The JECFA reports use the following values: 0.3 in muscle, 0.8 in fat, 0.1 in liver, 0.05 in kidney (WHO TRS 911(10) and 1 in milk (TRS 925(10) The same values appear to have been used for cattle and sheep				
Can the MRLs be extrapolated to ruminants?	Yes, as the M: identical and, 2 ruminant sp MRL can be ex	Ts established fo in addition, iden ecies. As the M: trapolated to m	or cattle and sheep are itical MRLs already exist in T for cattle milk is 1, the ilk of other ruminants		

For comments

Cypermethrin MRLs extrapolated to ruminants

Muscle 50 μg/kg: Fat 1000 μg/kg: Liver 50 μg/kg: Kidney 50 μg/kg:

Milk 100 µg/kg:

6. Deltamethrin – proposed extrapolation to ruminants

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Chicken (µg/kg)	Salmon (µg/kg)
	Muscle	30	30	30	30
	Fat	500	500	500	-
	Liver	50	50	50	-
	Kidney	50	50	50	-
	Milk	30	-	-	-
	Eggs	-	-	30	-
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes				
Is the marker residue the parent compound?	Yes				
What are the M:Ts	The JECFA reports (W 0.04 in liver, 0.03 in k M:T for muscle not re	'HO TRS 893 and idney and 1 in m ported but equi	918(10) use the hilk valent values we	e following value ere applied in al	es: 0.6 in fat, I species
Can the MRLs be extrapolated to ruminants?	Yes, the MRLs for cat While the MRL for mi milk was 1 and conse	tle and sheep tis Ik has only been quently the MRI	sues are identic established in c . can be extrapo	al and so can be one species, the lated to milk of	extrapolated. M:T used for other ruminants

For comments

Deltamethrin MRLs extrapolated to ruminants

Muscle 30 µg/kg:

Fat 500 µg/kg:

Liver 50 µg/kg:

Kidney 50 µg/kg:

Milk 30 µg/kg:

7. Moxidectin – proposed extrapolation to ruminants

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Deer (µg/kg)	
	Muscle	20	50	20	
	Fat	500	500	500	
	Liver	100	100	100	
	Kidney	50	50	50	
	Milk	-	-	-	
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes				
Is the marker residue the parent compound?	Yes				
What are the M:Ts	The JECFA report (WHO TRS 888(10) uses the following values: 0.75 for fat, 0.4 for muscle, 0.4 for liver and kidney for all three species				
Can the MRLs be extrapolated to ruminants?	Yes, as the M:Ts are the same in all three species (identical MRLs were originally established for cattle, sheep and deer [TRS 864(10)] but the muscle MRL for sheep was subsequently raised following a new residue study in sheep with the M:T remaining unchanged)				

For comments

Moxidectin MRLs extrapolated to ruminants

 Muscle
 20 μg/kg:

 Fat
 500 μg/kg:

 Liver
 100 μg/kg:

 Kidney
 50 μg/kg:

 Milk

8. Spectinomycin – proposed extrapolation to ruminants

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Pig (µg/kg)	Chicken (µg/kg)
	Muscle	500	500	500	500
	Fat	2000	2000	2000	2000
	Liver	2000	2000	2000	2000
	Kidney	5000	5000	5000	5000
	Milk	200	-	-	
	Eggs	-	-	-	2000
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes				
Is the marker residue the parent compound?	Yes				
What are the M:Ts	The JECFA report (WH for all other tissues, r	HO TRS 888(10)) nilk and eggs in a	uses the followi all species	ng values: 0.25 f	or liver and 1
Can the MRLs be extrapolated to ruminants?	Yes, as the M:Ts are t exist in 2 related rum	he same in all sp inant species	pecies and, in ad	dition, identical	MRLs already

For comments

Spectinomycin MRLs extrapolated to ruminants

 Muscle
 500 μg/kg:

 Fat
 2000 μg/kg:

 Liver
 2000 μg/kg:

 Kidney
 5000 μg/kg:

 Milk
 200 μg/kg:

9. Levamisole – proposed extrapolation to ruminants

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Pig (µg/kg)	Poultry (µg/kg)
	Muscle	10	10	10	10
	Fat	10	10	10	10
	Liver	100	100	100	100
	Kidney	10	10	10	10
	Milk	-	-	-	-
	Eggs	-	-	-	-
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes				
Is the marker residue the parent compound?	Yes				
What are the M:Ts?	The JECFA report (WH	IO TRS 851(10) ι	uses the followin	ng values: 0.024	for all tissues
Can the MRLs be extrapolated to ruminants?	Yes, as the M:Ts are t exist in 2 related rum	he same in all sp inant species	pecies and, in ad	dition, identical	MRLs already

For comments

Levamisole MRLs extrapolated to ruminants

 Muscle
 10 µg/kg:

 Fat
 10 µg/kg:

 Liver
 10 µg/kg:

 Kidney
 10 µg/kg:

 Milk

10. Tilmicosin – proposed extrapolation to ruminants

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Pigs (µg/kg)	Chicken* (μg/kg)	Turkey* (μg/kg)
	Muscle	100	100**	100	150	100
	Fat	100	100	100	250	250
	Liver	1000	1000	1500	2400	1400
	Kidney	300	300	1000	300	1200
	Milk	-	-	-	-	-
	Eggs	-	-	-	-	-
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes					
Is the marker residue the parent compound?	Yes					
What are the M:Ts?	The JECFA repo sheep liver, 0.1 muscle and fat,	rt (WHO TRS 0 for sheep ki 0.50 for pig l	876(10) uses dney, 0.25 fo iver and kidne	the following r cattle kidne ey, 0.10 for pi	values: 0.05 fo y, 0.10 for cattl g muscle and fa	r cattle and e and sheep it
Can the MRLs be extrapolated to ruminants?	Yes, although the recommended	here is a diffe for these 2 sp	rence in the N vecies were id	1:T for cattle entical	and sheep kidn	ey, the MRLs

* The value for fat applies to skin/fat

** Value not shown in database, but it was in the recommendation from JECFA

For comments

Tilmicosin MRLs extrapolated to ruminants

Muscle 100 µg/kg:

Fat 100 µg/kg:

- Liver 1000 µg/kg:
- Kidney 300 μg/kg:

Milk - :

11. Deltamethrin – proposed extrapolation to finfish

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Chicken (µg/kg)	Salmon (µg/kg)		
	Muscle	30	30	30	30		
	Fat	500	500	500	-		
	Liver	50	50	50	-		
	Kidney	50	50	50	-		
	Milk	30	-	-	-		
	Eggs	-	-	30	-		
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes						
Is the marker residue the parent compound?	Yes						
What are the M:Ts?	The JECFA repo salmon was no residue and to MRL establishe (From TRS 918	ort (WHO TRS ot established tal residues w ed based on tw s(10): 0.04 for	893(10) indicato However, the c vere very low in r wice the LoQ liver, 0.03 for ki	es that a M:T in oncentrations o muscle (of all sp dney and 0.60 fo	muscle of f the marker ecies), with the or fat)		
Can the MRLs be extrapolated to bony fish?	Yes, as residue very low (<loc exposure</loc 	es in muscle of () and do not	f all species eval make a significa	uated including nt addition to cc	salmon were onsumer		
	(Note that it was considered appropriate to extend the MRL for mammalian muscle to <i>Salmonidae</i> without metabolism data in this family)						

For comments

Deltamethrin MRL extrapolated to finfish

Muscle 30 µg/kg:

12. Flumequine – proposed extrapolation to finfish

For information

Which species have MRLs been established in?		Cattle (µg/kg)	Sheep (µg/kg)	Pigs (μg/kg)	Chicken (μg/kg)	Trout (μg/kg)
	Muscle	500	500	500	500	500
	Fat	1000	1000	1000	1000	-
	Liver	500	500	500	500	-
	Kidney	3000	3000	3000	3000	-
	Milk	-	-	-	-	-
	Eggs	-	-	-	-	-
Were the MRLs established on the basis of a full evaluation undertaken by JECFA?	Yes					
Is the marker residue the parent compound?	Yes					
What are the M:Ts?	The JECFA repo Cattle: muscle, Sheep: muscle, Pigs: muscle, ki Chickens: 0.82 Trout: no meas M:T = 1	rt (WHO TRS kidney and fa kidney and fa dney and fat: in all tissues urable residue	900(10) uses t: 0.79, liver: nt: 0.4, liver: 0 0.59, liver:0.0 es of flumequ	the following 0.17 0.06 07 ine metabolit	values: es, so most pro	bably
Can the MRLs be extrapolated to bony fish?	Yes, as the M:T fish) and, in add species.	in trout is mo dition, identic	ost probably 1 al MRLs have	(suggesting r been establis	no significant m hed in multiple	etabolism in unrelated

For comments

Flumequine MRL extrapolated to finfish

Muscle 500 µg/kg: