### Appendix IV

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## PROPOSED DRAFT MAXIMUM RESIDUE LIMITS (MRLS) FOR VETERINARY DRUGS

#### (for adoption at Step 5/8)

Species	Tissue	MRLs (µg/kg)	Step	JECFA	
Residue Definition	on:	Amoxicillin			
		1.6 μg/kg bw (for children), microbiological ARfD.	which represe	nts 31% of the	
Estimated Acute (GEADE):	e Dietary Exposure	1.4 μg/kg bw (for the general μ of the microbiological ARfD.	population), which	n represents 28%	
Estimated Chror (GECDE):	nic Dietary Exposure	0.14 µg/kg bw per day (for represents 7% of the upper bo	•	opulation), which	
Acute Reference	e Dose (ARfD):	0.005 mg/kg bw based on micr microbiota	obiological effect	s on the intestinal	
Microbiological Acceptable Daily 0–0.002 mg/kg body weight (bw) based on the efference amoxicillin on the intestinal microbiota.					
AMOXICILLIN (and	timicrobial agent)				

Finfish <sup>a</sup>	Fillet <sup>b</sup>	50	5/8
	Muscle	50	5/8
a The term "finfi	ah" includes all fich anonios		

<sup>a</sup> The term "finfish" includes all fish species.

<sup>b</sup> Muscle plus skin in natural proportion.

Microbiological Intake (mADI)Acceptable Daily DailyDaily 0-0.003 mg/kg bw based on a no-observed-adverse-effect level (NOAEL) equivalent to 0.025 mg/kg bw per day for increase in population(s) of ampicillin-resistant bacteria in the gastrointestinal tract in humans, and using a safety factor of 10 (for the variability in the composition of the intestinal microbiota within and between individuals).Acute Reference Dose (ARfD):0.012 mg/kg bw based on the microbiological end-point.Estimated Chronic Dietary Exposure (GECDE):0.29 μg/kg bw per day (for the general population), which represents 10% of the upper bound of the ADI.Estimated Acute Dietary Exposure (GEADE):1.9 μg/kg bw per day (for the general population), which represents 16% of the ARfD.No mpicillin.1.7 μg/kg bw per day (for children), which represents 14% of the ARfDResidue Definition:Ampicillin.	Species	Tissue	MRLs (ua/ka)	Sten	JECEA	
Intake (mADI)(NOAEL) equivalent to 0.025 mg/kg bw per day for increase in population(s) of ampicillin-resistant bacteria in the gastrointestinal tract in humans, and using a safety factor of 10 (for the variability in the composition of the intestinal microbiota within and between individuals).Acute Reference Dose (ARfD):0.012 mg/kg bw based on the microbiological end-point.Estimated Chronic Dietary Exposure (GECDE):0.29 μg/kg bw per day (for the general population), which represents 10% of the upper bound of the ADI.Estimated Acute Dietary Exposure (GEADE):1.9 μg/kg bw per day (for the general population), which represents 16% of the ARfD.1.7 μg/kg bw per day (for children), which represents 14% of the	Residue Definition	on:	Ampicillin.			
Intake (mADI)(NOAEL) equivalent to 0.025 mg/kg bw per day for increase in population(s) of ampicillin-resistant bacteria in the gastrointestinal tract in humans, and using a safety factor of 10 (for the variability in the composition of the intestinal microbiota within and between individuals).Acute Reference Dose (ARfD):0.012 mg/kg bw based on the microbiological end-point.Estimated Chronic Dietary Exposure (GECDE):0.29 μg/kg bw per day (for the general population), which represents 10% of the upper bound of the ADI.Estimated Acute Dietary Exposure1.9 μg/kg bw per day (for the general population), which				ldren), which rep	presents 14% of the	
Intake (mADI)(NOAEL) equivalent to 0.025 mg/kg bw per day for increase in population(s) of ampicillin-resistant bacteria in the gastrointestinal tract in humans, and using a safety factor of 10 (for the variability in the composition of the intestinal microbiota within and between individuals).Acute Reference Dose (ARfD):0.012 mg/kg bw based on the microbiological end-point.Estimated Chronic Dietary Exposure0.29 μg/kg bw per day (for the general population), which		e Dietary Exposure		or the general	population), which	
Intake (mADI) (NOAEL) equivalent to 0.025 mg/kg bw per day for increase in population(s) of ampicillin-resistant bacteria in the gastrointestinal tract in humans, and using a safety factor of 10 (for the variability in the composition of the intestinal microbiota within and between individuals).		nic Dietary Exposure		-	•••	
Intake (mADI) (NOAEL) equivalent to 0.025 mg/kg bw per day for increase in population(s) of ampicillin-resistant bacteria in the gastrointestinal tract in humans, and using a safety factor of 10 (for the variability in the composition of the intestinal microbiota within and between	Acute Reference	e Dose (ARfD):	0.012 mg/kg bw based on the	e microbiological	l end-point.	
	-	Acceptable Daily	(NOAEL) equivalent to 0.025 mg/kg bw per day for increase in population(s) of ampicillin-resistant bacteria in the gastrointestinal tract in humans, and using a safety factor of 10 (for the variability in the composition of the intestinal microbiota within and between			

Species	Tissue	MRLs (µg/kg)	Step	JECFA	
Finfish <sup>a</sup>	Fillet <sup>b</sup>	50	5/8	85	
	Muscle	50	5/8	85	

<sup>a</sup> The term "finfish" includes all fish species.

<sup>b</sup> Muscle plus skin in natural proportion.

Note: The 85th JECFA recommended an MRL of 50 µg/kg for ampicillin in finfish muscle and in finfish muscle plus skin in natural proportion, the same as that recommended for amoxicillin, because the modes of action, the physicochemical properties and the toxicological and pharmacokinetic profiles of amoxicillin and ampicillin are very similar.

LUFENURON (ir	nsecticide)				
Acceptable Daily Intake (ADI)		0–0.02 mg/kg bw based on the NOAEL of 1.93 mg/kg bw per day for tonic-clonic seizures and findings in lungs, gastrointestinal tract, liver and urinary tract in a 2-year dietary study in rats, and using a safety factor of 100 (10 for interspecies variability and 10 for intraspecies variability).			
Acute Reference dose (ARfD): Unnecessary, in view of lufenuron low acute oral toxic absence of developmental toxicity and other toxicolog likely to be elicited by a single dose.			•		
Estimated chronic dietary exposure (GECDE):		<ol> <li>μg/kg bw per day (for the general population), which represents 5.5% of the upper bound of the ADI.</li> </ol>			
		As lufenuron is also used as pesticide the overall dietary exposure was estimated. The assumptions and detailed results will be displayed in the JECFA 85 report. Results below are only for use as veterinary drug.			
Residue Definition:		Lufenuron			
Species	Tissue	MRLs (µg/kg)	Step	JECFA	
Salmon	Fillet <sup>a</sup>	1 350	5/8	85	
Trout	Fillet <sup>a</sup>	1 350	5/8	85	

<sup>a</sup> Muscle plus skin in natural proportion.

MONEPANTEL	(anthelminthic)				
Acceptable Daily Intake (ADI)		0–0.02 mg/kg bw based on the NOAEL of 1.93 mg/kg bw per day for tonic-clonic seizures and findings in lungs, gastrointestinal tract, liver and urinary tract in a 2-year dietary study in rats, and using a safety factor of 100 (10 for interspecies variability and 10 for intraspecies variability).			
Acute Reference dose (ARfD):		Unnecessary			
Estimated chronic dietary exposure (GECDE):		13.7 μg per kg bw per day (for the general population), which represents 68% of the upper bound of the ADI.			
		5.0 μg per kg bw per day (for children), which represents 22% of the upper bound of the ADI.			
		4.4 $\mu$ g per kg bw per day (for infants), which represents 25% of the upper bound of the ADI.			
Residue Definition:		Monepantel sulfone, expressed as monepantel			
Species	Tissue	MRLs (µg/kg)	Step	JECFA	
	Fat	7 000	5/8	85	
Cottle	Kidney	1 000	5/8	85	
Cattle	Liver	2 000	5/8	85	
	Muscle	300	5/8	85	

# PROPOSED DRAFT MAXIMUM RESIDUE LIMITS (MRLS) FOR VETERINARY DRUGS

## (for adoption at Step 5)

FLUMETHRIN (insecticide)				
Acceptable Daily Intake (ADI)	0–0.004 mg/kg bw based on the NOAEL of 0.37 mg/kg bw per day for skin lesions in parental animals and reduced survival and body-weight gain in pups in a two-generation toxicity study in rats, and using a safety factor of 100 (10 for interspecies variability and 10 for intraspecies variability).			
Acute Reference dose (ARfD):	salivation in da	ow based on the N ims in a developmer factor of 100 (10 for i s variability).	ntal toxicity stu	dy in rats, and
Estimated chronic dietary exposure (GECDE):		w per day (for the % of the upper bound		ulation), which
	0.006 µg/kg bv the upper boun	v per day (for childre d of the ADI.	n), which repro	esents 0.2% of
	exposure was	thrin is also used as estimated. The assu ed in the JECFA 85 r rinary drug.	imptions and o	detailed results
Estimated Acute Dietary Exposure (GEADE):	0.1 µg/kg bw represents 2.29	per day (for the % of the ARfD.	general popu	ulation), which
	0.1 µg/kg bw p ARfD.	er day (for children),	which represe	nts 2.2% of the
Residue Definition:	Flumethrin (tra approximately	ns-Z1 and trans Z2 60:40).	diastereomer	s at a ratio of
Species Tissue	MRLs (µg/kg)	Note	Step	JECFA
Honey	unnecessary	Residues resulting from the use of this substances as an insecticide in accordance with good practice for veterinary drug are unlikely to pose a hazard to human health.	5	85