



JOINT FAO/WHO FOOD STANDARDS PROGRAMME
CODEx COMMITTEE ON RESIDUES OF VETERINARY DRUGS IN FOODS

Twenty-third Session

Houston, Texas, United States of America, 17 – 21 October 2016

GLOBAL SURVEY TO PROVIDE INFORMATION TO THE CCRVDF TO MOVE COMPOUNDS FROM THE DATABASE ON COUNTRIES' NEEDS FOR MRLS TO THE JECFA PRIORITY LIST AND DATABASE ON COUNTRIES' NEEDS FOR MRLS

CCRVDF DATABASE ON COUNTRIES' NEEDS FOR MRLS

BACKGROUND:

1. The Database was updated based on the comments submitted to the CCRVDF22. The goal of this ongoing effort is to identify high-priority needed MRLs, identify data availability and data gaps, explore alternative ways to fill data gaps, and allow prioritization of veterinary drugs for evaluation by JECFA. Together the Database and the results of the Global Survey will inform the Committee as they determine whether there is sufficient information to continue this work.
2. In the *Risk Analysis Principles Applied by the Codex Committee on Veterinary Drugs in Foods*, one of the criteria for nominating a veterinary drug for evaluation by JECFA is that "the compound has the potential to cause public health and/or international trade problems (CAC Procedural Manual, page 131, para. 12)." This part of the criteria may be helpful to Member Countries in determining what MRLs are needed in their country.
3. The current Database on Countries' Needs for MRLs contains requests for MRLs for 87 veterinary drugs from 21 countries.

Appendices:

4. Appendix 1 provides the current database. The database is organized alphabetically by veterinary drug with a different entry for each species for which MRLs are needed. Each country that has requested MRLs for the specific veterinary drug and species is also listed to show the breadth of each need and the variations in conditions of use.
5. Appendix 2 provides a form to use for updates and additions to the database. This form reflects the format of the current database. A submission from the Philippines is included as an excellent example of the information that is requested when adding a needed veterinary drug MRL and how a country may respond to that request. The first six columns (in white) are for information requested from Members. The final four columns (shaded in grey) are for optional information which Member Countries may also consider providing.

REQUEST FOR REVISIONS/NEW INFORMATION:

6. Members are requested, as directed above, to:
 - (i) Review the database (in Appendix 3) and confirm whether their existing requests reflect the current needs; and provide any revisions to the list of needed MRLs previously submitted by using the form in Appendix 1.
 - (ii) Submit any new contribution to the existing database by using the form in Appendix 2 (please ensure to include information specific to your country even if the needed drug MRL is already listed with information from another country).

Appendix 1: Database on Countries' Needs for MRLs

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
All Approved drugs for large animals	Egypt, Kenya	Camel	Meat /fat Liver Kidney Milk		No data are available for any tissue or milk					Camel meat and milk are widely used in Egypt and other countries especially rural areas and in Arab countries. Camel meat and milk are widely consumed in Kenya in the arid and semi arid areas. Camel milk has inherent nutritional and medicinal benefits and has gained popularity among consumers in urban areas and in the city. Demand for camel milk in the international market has increased especially in South Africa and European Union.
Aminosydine	Armenia	Cattle			MRLs (ppb) in Armenia: Muscle (1000), Liver (10,000),	Unknown	None	No Codex MRLs	Armenia	Need more specific tissue information.

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
					Kidney (20,000)					
Aminosydine	Armenia	Chicken			MRLs (ppb) in Armenia: Muscle (1000), Liver (10,000), Kidney (20,000)	Unknown		No Codex MRLs	Armenia	Need more specific tissue information
Aminosydine	Armenia	Pig			MRLs (ppb) in Armenia: Muscle (1000), Liver (10,000), Kidney (20,000)	Unknown		No Codex MRLs	Armenia	Need more specific tissue information
Aminosydine	Armenia	Rabbit			MRLs (ppb) in Armenia: Muscle (1000), Liver (10,000), Kidney (20,000)	Unknown		No Codex MRLs	Armenia	Need more specific tissue information
Amitraz	El Salvador	Bees	Honey	0.16% concentration, dose 3 ml per hive		Unknown		No Codex MRLs		The country has high percentages of honey production
Amoxicillin	Republic of Korea	Fish	Muscle	Republic of Korea Dosing Resimen: 20-40 mg a.i./kg b.w. orally(in feed) for 4 - 7 days		Republic of Korea: Daesung Microbiological Labs Co., Ltd.; Daone Chemical Co., Ltd.; WooGene B&G; KOPAVET Special, Inc.; Jin woo medicine; Ubtech	75th JECFA, 2011	Codex MRL in Cattle, Sheep, Pig	Republic of Korea (0.05-fish)	Fish residue data needed

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Ampicillin	Armenia	Cattle	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 50, Fat, 50, Liver 50, Kidney 50, Milk 4	Wyeth		No Codex MRLs	Armenia; Australia; milk; Canada; EU; USA	
Ampicillin	Republic of Korea	Fish	Muscle	<p>Republic of Korea Dosing Resimen : 5-20 mg a.i./kg b.w. Orally(in feed) for 5 days;</p> <p>2-7 mg a.i./kg b.w. Orally(in feed) for 3-5 days;</p> <p>0.05-0.1 mg a.i./kg b.w. Orally(in feed) for 3 days;</p> <p>20-80 mg a.i./kg b.w. Orally(in feed) for 5 days</p>		<p>Republic of Korea: WooSung Vet.; JB Solution; KOPAVET Special, Inc.; Green cross veterinary products; Korea thumb vet.; EWHA PHARMTEK; ChoongAng Biotech Co., Ltd.; Sung-Won Co., Ltd; Samyang Anipharm Co., Ltd.; HANDONG Co., Ltd.; Komi pharm international Co., Ltd; Samu Median Co., Ltd; WooGene B&G; Daehan New Pharm Coperation; Dongbu Farm Hanong; ELT Science; Jin woo medicine; Chamshin pharma Co., Ltd; Da One Chemical;</p>		No Codex MRLs	Republic of Korea (0.05-fish)	

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
						Ubtech				
Ampicillin	Armenia	Sheep	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 50, Fat, 50, Liver 50, Kidney 50, Milk 4	Wyeth		No Codex MRLs	Armenia; Canada; EU; USA	
Ampicillin	Armenia	Swine	Muscle, Liver, Kidney		MRLs (ppb) in Armenia: Muscle 50, Fat, 50, Liver 50, Kidney 50	Wyeth		No Codex MRLs	Armenia; EU	
Apramycin	Armenia	Cattle			MRLs (ppb) in Armenia: Muscle (1000), Fat (1000), Liver (10,000), Kidney (20,000)	Elanco		No Codex MRLs	Armenia; Australia; EU	Need more specific tissue information
Bacitracin	Democratic People's Republic of Korea	All animals		Democratic People's Republic of Korea Dosing Regimen: Oral, 20 - 50 mg.kg in feed for 10 - 50 days		Alpharma, Inc.; Zoetis, Inc.		No Codex MRLs	Australia: chicken; Canada: chicken, turkey, pig; EU: cattle, rabbit; USA: cattle, swine, chicken, turkey, quail, pheasant, quail	Need to better define species and tissues
Bacitracin	Armenia, Democratic People's Republic of Korea,	Cattle	Muscle, Liver, Fat/Skin, Kidney	Democratic People's Republic of Korea Dosing Regimen: Oral, 20 - 50 mg.kg in feed for 10 - 50	MRLs (ppb) in Armenia: Milk (100), Muscle (150), Fat	Alpharma, Inc.; Zoetis, Inc.	12th JECFA, 1968; Full ADI	No Codex MRLs	Armenia; EU; USA	Summary of 12th JECFA evaluation: If bacitracin is used, it should

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	Peru			days; Registered in Peru	(150), Liver (150), Kidney (150)					not be allowed to give rise to detectable residues in food for consumption by humans. If the methods of analysis recommended by the Committee are used, it will be possible to ensure that the residues in food will not exceed the following limits: Milk 0-1.2 IU/ml Meat, 0-0.7 IU/g and Eggs 0-4.8 IU/g (1 mg of bacitracin = 42 IU).
Bacitracin	Costa Rica, Democratic People's Republic of Korea, Peru, Philippines	Chicken	All tissues; Muscle, Liver, Kidney, Egg	Costa Rica Dosing Regimen: 275. ppm, 55 ppm, 220 ppm, oral; Democratic People's Republic of Korea Dosing Regimen: Oral, 20 - 50 mg.kg in feed for 10 - 50 days; Registered in Peru; Philippines Dosage: 50-200ppm, 100-200ppm		Alpharma, Inc. Agri-Bio Philippines Zoetis, Inc.	12th JECFA, 1968; Full ADI	No Codex MRLs	Australia, Canada; USA	Summary of 12th JECFA evaluation: If bacitracin is used, it should not be allowed to give rise to detectable residues in food for consumption by humans. If the methods of analysis recommended by the Committee are used, it will be possible to

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
										ensure that the residues in food will not exceed the following limits: Milk 0-1.2 IU/ml Meat, 0-0.7 IU/g and Eggs 0-4.8 IU/g (1 mg of bacitracin = 42 IU).
Bacitracin	Chile, Costa Rica, Democratic People's Republic of Korea, Peru, Philippines	Pig	Muscle, Fat, Liver, Kidney	<p>Registered in Chile, Dose regime in Chile</p> <p>Oral Dosage:</p> <ul style="list-style-type: none"> - Broiler chickens, replacement pullets: Bacitracin 13 mg base / kg PV for 5 to 7 days - Turkeys: Bacitracin 31 mg base / kg P.V. for 5 to 7 days. - Pigs: 41 mg of bacitracin base / kg P.V. for 5 to 7 days; <p>Costa Rica Dosing Regimen: 275. ppm, 55 ppm, 220 ppm, oral;</p> <p>Democratic People's Republic of Korea Dosing Regimen: Oral, 20 - 50 mg.kg in feed for 10 - 50 days;</p> <p>Registered in Peru; Philippines dosage: 50-100ppm, 250-275ppm</p>	<p>United States Chickens, Turkeys and Pork (edible tissue and eggs) 0.5 ppm</p> <p>Canada Chickens, Turkeys and Pork (liver, kidney, skin + fat, muscle) 0.5 ppm</p>	Alpharma US, Inc. Agri-Bio Philippines Zoetis, Inc.	12th JECFA, 1968; Full ADI	No Codex MRLs	Canada; USA	<p>Summary of 12th JECFA evaluation: If bacitracin is used, it should not be allowed to give rise to detectable residues in food for consumption by humans. If the methods of analysis recommended by the Committee are used, it will be possible to ensure that the residues in food will not exceed the following limits: Milk 0-1.2 IU/ml Meat, 0-0.7 IU/g and Eggs 0-4.8 IU/g (1 mg of bacitracin = 42 IU). This compound has not been re-</p>

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
										evaluated by the Program for the risk assessment of veterinary drug residues in food of animal origin that began in 1987 (32th session).
Bacitracin	Chile, Democratic People's Republic of Korea	Poultry	Muscle, Fat, Liver, Kidney, Eggs	<p>Registered in Chile, Dose regime in Chile</p> <p>Oral Dosage:</p> <ul style="list-style-type: none"> - Broiler chickens, replacement pullets: Bacitracin 13 mg base / kg PV for 5 to 7 days - Turkeys: Bacitracin 31 mg base / kg P.V. for 5 to 7 days. - Pigs: 41 mg of bacitracin base / kg P.V. for 5 to 7 days; <p>Democratic People's Republic of Korea Dosing Regimen: Oral, 20 - 50 mg/kg in feed for 10 - 50 days</p>	<p>United States Chickens, Turkeys and Pork (edible tissue and eggs) 0.5 ppm</p> <p>Canada Chickens, Turkeys and Pork (liver, kidney, skin + fat, muscle) 0.5 ppm</p>	Alpharma US, Inc.; Zoetis, Inc.	12th JECFA, 1968; Full ADI	No Codex MRLs	Australia: chicken; Canada: chicken, turkey; USA	<p>Summary of 12th JECFA evaluation: If bacitracin is used, it should not be allowed to give rise to detectable residues in food for consumption by humans. If the methods of analysis recommended by the Committee are used, it will be possible to ensure that the residues in food will not exceed the following limits: Milk 0-1.2 IU/ml Meat, 0-0.7 IU/g and Eggs 0-4.8 IU/g (1 mg of bacitracin = 42 IU).</p> <p>This compound has not been re-evaluated by the Program for the</p>

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										risk assessment of veterinary drug residues in food of animal origin that began in 1987 (32th session).
Bacitracin	Armenia, Democratic People's Republic of Korea	Rabbit		Democratic People's Republic of Korea Dosing Regimen: Oral, 20 - 50 mg.kg in feed for 10 - 50 days	MRLs (ppb) in Armenia: Muscle (150), Fat (150), Liver (150), Kidney (150)	Alpharma, Inc.	12th JECFA, 1968; Full ADI	No Codex MRLs	Armenia; EU	Need more specific tissue information; Summary of 12th JECFA evaluation: If bacitracin is used, it should not be allowed to give rise to detectable residues in food for consumption by humans. If the methods of analysis recommended by the Committee are used, it will be possible to ensure that the residues in food will not exceed the following limits: Milk 0-1.2 IU/ml Meat, 0-0.7 IU/g and Eggs 0-4.8 IU/g (1 mg of bacitracin = 42 IU).

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Bacitracin	Chile, Democratic People's Republic of Korea	Turkey	Muscle, Fat, Liver, Kidney	<p>Registered in Chile, Dose regime in Chile</p> <p>Oral Dosage: - Broiler chickens, replacement pullets: Bacitracin 13 mg base / kg PV for 5 to 7 days - Turkeys: Bacitracin 31 mg base / kg P.V. for 5 to 7 days. - Pigs: 41 mg of bacitracin base / kg P.V. for 5 to 7 days; Democratic People's Republic of Korea Dosing Regimen: Oral, 20 - 50 mg.kg in feed for 10 - 50 days</p>	<p>United States Chickens, Turkeys and Pork (edible tissue and eggs) 0.5 ppm</p> <p>Canada Chickens, Turkeys and Pork (liver, kidney, skin + fat, muscle) 0.5 ppm</p>	Alpharma US, Inc.; Zoetis, Inc.	12th JECFA, 1968; Full ADI	No Codex MRLs	Canada	<p>Summary of 12th JECFA evaluation: If bacitracin is used, it should not be allowed to give rise to detectable residues in food for consumption by humans. If the methods of analysis recommended by the Committee are used, it will be possible to ensure that the residues in food will not exceed the following limits: Milk 0-1.2 IU/ml Meat, 0-0.7 IU/g and Eggs 0-4.8 IU/g (1 mg of bacitracin = 42 IU). This compound has not been re-evaluated by the Program for the risk assessment of veterinary drug residues in food of animal origin that began in 1987 (32th session).</p>

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Benzyl Penicillin	Armenia	Sheep	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 50, Fat, 50, Liver 50, Kidney 50, Milk 4	Wyeth, G. C. Hanford, Walco International, Teva, Cross Vetpharm	36th JECFA, 1990; Full ADI; MRLs recommended in all species (muscle, liver, kidney, milk)	Codex MRLs in cattle, pig, and chicken	Armenia; Australia; Canada; EU; USA: zero tolerance	JECFA recommended MRLs in "all species," Codex MRLs adopted for cattle, pig, and chicken May require additional sheep residue data
Boldenone	El Salvador	Cattle	Muscle, Fat, Kidney, Liver	Concentration: 50 mg/ml; 56 mg/ml Dose: 1 ml/90 kg p.v. (cattle and pig)		Unknown		No Codex MRLs		
Boldenone	El Salvador	Pig	Muscle, Fat, Kidney, Liver	Concentration: 50 mg/ml; 56 mg/ml Dose: 1 ml/90 kg p.v. (cattle and pig)		Unknown		No Codex MRLs		
Boldenone	El Salvador	Sheep	Muscle, Fat, Kidney, Liver	Concentration: 50 mg/ml; 56 mg/ml Dose: 1 ml/90 kg p.v. (cattle and pig)		Unknown		No Codex MRLs		
Boldenone Undecylenate	Guatemala	None specified				Wyeth		No Codex MRLs		Need to better define species and tissues
Cefoperazone	Costa Rica	Cattle	Milk	25 mg/mL, intramammary		Pfizer (Italy)		No Codex MRLs	EU: cattle	
Cefotaxime	Egypt	Chicken	Meat fat/ skin Liver Kidney Eggs	5 mg/kg bw/day orally		Pfizer		No Codex MRLs		
Cefacetriple	Armenia	Cattle	Muscle, Liver, Kidney, Milk	Intramammary Use only		Unknown		No Codex MRLs		
Cephalexine	Armenia	Cattle	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 200, Fat 200, Liver 200,	Unknown		No Codex MRLs	Armenia	

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					Kidney 200, Milk 1000					
Cefalonium	Armenia	Cattle	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Milk 20	Unknown		No Codex MRLs	Armenia: milk	
Cefazoline	Armenia	Cattle	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Milk 50	Unknown		No Codex MRLs	Armenia: milk	
Cefazoline	Armenia	Goat	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Milk 50	Unknown		No Codex MRLs	Armenia: milk	
Cefazoline	Armenia	Sheep	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Milk 50	Unknown		No Codex MRLs	Armenia: milk	
Chlorhexidine	Democratic People's Republic of Korea	Rabbit		Oral, 0.1% solution for 5 days		Wyeth, First Priority		No Codex MRLs	EU: all food producing species - not required	Need more specific tissue information
Chlortetracycline	Indonesia	Fish	Muscle	GPVD (ex: dosis, withdrawal time, dill)	Not Registered. Minister of Marine Affairs and Fisheries of Indonesia Regulation Number 52/KEPMEN-KP/2014 on Aquaculture Drugs Classification . Director General of Aquaculture		51st JECFA, 1998; Full ADI	No Codex MRLs		Fish species: Nile Tilapia, Milkfish, Walking Cat fish, gouramy, common carp, barramundi, grouper

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					Decree, Ministry of Marine Affairs and Fisheries of Indonesia Number 56/KEP-DJPB/2014 on Maximum Residue Limits of Fish Products.					
Chlortetracycline	El Salvador	Poultry	Fat	100 mg/kg Oral, 200-800 ppm		Unknown	50th JECFA, 1998; Full ADI	Codex MRLs in poultry muscle, kidney, eggs, liver		
Chlortetracycline	El Salvador	Pig	Fat	101 mg/kg Oral, 200-800 ppm		Unknown	51st JECFA, 1998; Full ADI	Codex MRLs in pig muscle, kidney, liver		
Cloprostenol	El Salvador	Cattle	Muscle, Fat, Kidney, Liver	Concentration: 0.075 mg / ml. Dose 2-5 ml for 10-15 days. Parenterally		Unknown		No Codex MRLs		
Cloprostenol	El Salvador	Pig	Muscle, Fat, Kidney, Liver	Concentration: 0.075 mg / ml. Dose 2-5 ml for 10-15 days. Parenterally		Unknown		No Codex MRLs		
Cloxacillin	Armenia	Cattle	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 300, Fat 300, Liver 300, Kidney 300, Milk 30	Pfizer		No Codex MRLs	Armenia; Australia; milk; Canada; EU; USA	

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Cloxacillin	Armenia	Pig	Muscle, Liver, Kidney		MRLs (ppb) in Armenia: Muscle 300, Fat 300, Liver 300, Kidney 300	Pfizer		No Codex MRLs	Armenia; EU	
Cloxacillin	Armenia	Sheep	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 300, Fat 300, Liver 300, Kidney 300, Milk 30	Pfizer		No Codex MRLs	Armenia; EU	
Colistin	Armenia	All livestock			MRLs (ppb) in Armenia: Fat (150), Muscle (150), Liver (150), Kidney (200), Milk (50), Egg (300)	Unknown	66th JECFA, 2006; Full ADI	Codex MRLs in cattle, pig, sheep, goat, rabbit, chicken, and turkey	Armenia; EU: all food producing species	Need to better define species and tissues
Coumaphos	Republic of Korea	Bees		Republic of Korea Dosing Resimen : 0.64 mg a.i./hive (12 combs); 0.16 mg a.i./hive		Republic of Korea: Bisen, Bayer Korea Limited.		No Codex MRLs	Republic of Korea (0.1-honey)	
Coumaphos	Costa Rica	Cattle	Tissues and milk	20% topically		Bayer de Mejico		No Codex MRLs	Australia	
Coumaphos	Costa Rica	Goat	Tissues and milk	20% topically		Bayer de Mejico		No Codex MRLs		
Coumaphos	Costa Rica	Pig	Tissues	20% topically		Bayer de Mejico		No Codex MRLs		Need more specific tissue information
Coumaphos	Costa Rica	Sheep	Tissues and milk	20% topically		Bayer de Mejico		No Codex MRLs		
Cypermethrin	Guatemala	None specified				Unknown	62nd JECFA, 2004; Full ADI	Codex MRLs in cattle and sheep	Australia: cattle, deer, goat, horse, pig,	Need to better define species and tissues

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									poultry, sheep; EU: all ruminants, salmonids	
Dexamethasone	Iran	Goat	muscle	1 - 2.5 mL (2mg) IM, IV, SC		Interchemistry (Netherlands), Schering Plough, Teva, Cross Vetpharm	70th JECFA, 2008; Full ADI	Codex MRLs in cattle, pig, and horse	EU	Goat residue data needed
Dexamethasone	Iran	Sheep	muscle	1 - 2.5 mL (2mg) IM, IV, SC		Interchemistry (Netherlands), Schering Plough, Teva, Cross Vetpharm	70th JECFA, 2008; Full ADI	Codex MRLs in cattle, pig, and horse	Australia: cattle; EU: cattle, goat	Sheep residue data needed
Diazinon	Guatemala	None specified				Unknown		No Codex MRLs	Australia: mammals, poultry; EU: cattle, sheep, goat, pig	Need to better define species and tissues
Diclazuril	Guatemala	None specified				Schering Plough	50th JECFA, 1998; Full ADI	Codex MRLs in sheep, rabbit, and poultry	Canada: chicken, turkey; EU: all ruminants, pig; USA: chicken, turkey	Need to better define species and tissues
Dicloxacillin	Armenia	Cattle	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 300, Fat 300, Liver 300, Kidney 300, Milk 30	Wyeth		No Codex MRLs	Armenia; EU	
Dicloxacillin	Armenia	Pig	Muscle, Liver, Kidney		MRLs (ppb) in Armenia: Muscle 300, Fat 300,	Wyeth		No Codex MRLs	Armenia; EU	

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					Liver 300, Kidney 300					
Dicloxacillin	Armenia	Sheep	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 300, Fat 300, Liver 300, Kidney 300, Milk 30	Wyeth		No Codex MRLs	Armenia; EU	
Dipirona (metamizole)	El Salvador	Cattle	Muscle, Fat, Kidney, Liver	Concentration 50 g / 100 ml Dose		Unknown		No Codex MRLs		
Dipirona (metamizole)	El Salvador	Goat	Muscle, Fat, Kidney, Liver	Concentration 50 g / 100 ml Dose		Unknown		No Codex MRLs		
Dipirona (metamizole)	El Salvador	Sheep	Muscle, Fat, Kidney, Liver	Concentration 50 g / 100 ml Dose		Unknown		No Codex MRLs		
Dipirona (metamizole)	El Salvador	Pig	Muscle, Fat, Kidney, Liver	Concentration 50 g / 100 ml Dose		Unknown		No Codex MRLs		
Doxycycline	Armenia, El Salvador	Cattle	Muscle, Fat, Kidney, Liver	El Salvador: Concentrations: 100 mg/g; 100 mg/ml; 10 g/100 ml; 50 g/100 g. Doses: 1 g/50 kg, in poultry 20-40 g/200 L of water every 24 hours for 4-6 days	MRLs (ppb) in Armenia: Muscle (100), Liver (300)	Unknown		No Codex MRLs	Armenia; EU	
Doxycycline	Armenia, Philippines	Chicken	Muscle, Liver, Kidney, Egg	Philippines: 1ml/10-15kg bw; 100-200pp, Oral; 50-100ppm, Oral;	MRLs (ppb) in Armenia: Muscle (100), Skin and Fat (200), Liver (300), Kidney (600)	Unknown; Jickstar Pharma, Inc. Horizon Link, Inc. Carrington Trading, Inc.		No Codex MRLs	Armenia; EU	

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Doxycycline	El Salvador	Poultry	Muscle, Liver, Kidney, Fat	El Salvador: Concentrations: 100 mg/g; 100 mg/ml; 10 g/100 ml; 50 g/100 g. Doses: 1 g/50 kg, in poultry 20-40 g/200 L of water every 24 hours for 4-6 days		Unknown		No Codex MRLs		
Doxycycline	El Salvador	Goat	Muscle, Liver, Kidney, Fat	El Salvador: Concentrations: 100 mg/g; 100 mg/ml; 10 g/100 ml; 50 g/100 g. Doses: 1 g/50 kg, in poultry 20-40 g/200 L of water every 24 hours for 4-6 days		Unknown		No Codex MRLs		
Doxycycline	El Salvador	Sheep	Muscle, Liver, Kidney, Fat	El Salvador: Concentrations: 100 mg/g; 100 mg/ml; 10 g/100 ml; 50 g/100 g. Doses: 1 g/50 kg, in poultry 20-40 g/200 L of water every 24 hours for 4-6 days		Unknown		No Codex MRLs		
Doxycycline	Armenia, El Salvador, Philippines	Pig	Muscle, Liver, Kidney, Fat	El Salvador: Concentrations: 100 mg/g; 100 mg/ml; 10 g/100 ml; 50 g/100 g. Doses: 1 g/50 kg, in poultry 20-40 g/200 L of water every 24 hours for 4-6 days Philippines: 1ml/20kg bw; 1ml/10-15kg bw; 100-200ppm, Oral; 50-100ppm, Oral; 10mg/kg BW, Oral	MRLs (ppb) in Armenia: Muscle (100), Skin and Fat (200), Liver (300), Kidney (600)	Unknown; Jickstar Pharma, Inc. Horizon Link, Inc. Supervet International, Inc. Carrington Trading, Inc. Hipra Phils., Inc.		No Codex MRLs	Armenia; EU	Need more specific tissue information

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Enrofloxacin	Belize, Peru	Aquaculture	Muscle	Registered in Belize; Registered in Peru		Various (Bayer, Laboratorios California, Colombia) Anupco UK	48th JECFA, 1997; Full ADI	No Codex MRLs	EU	48th JECFA requested: "studies to determine the antimicrobial activity of the residues other than enrofloxacin and ciprofloxacin."
Enrofloxacin	Armenia, Peru	Cattle	Muscle, Fat, Liver, Kidney, Milk	Registered in Peru	MRLs (ppb) in Armenia: Muscle 100, Fat 100, Liver 300, Kidney 200, Milk 100	Bayer	48th JECFA, 1997; Full ADI	No Codex MRLs	Armenia; Canada; EU; USA	48th JECFA requested: "studies to determine the antimicrobial activity of the residues other than enrofloxacin and ciprofloxacin."
Enrofloxacin	Armenia, Peru, Philippines	Chicken	Muscle, Fat/Skin, Liver, Kidney, Egg	Registered in Peru; Philippines: 10mg/kg bw, Oral; 0.1-0.2ml/kg bw, Oral; 0.25ml/kg bw, Oral; 100ppm, Oral; 1ml/10-15kg bw, IM injection	MRLs (ppb) in Armenia: Muscle 100, Fat with Skin 100, Liver 200, Kidney 300	Bayer Health Care - Animal Health; First Fil-Bio; Provet International Corporation; Transcend Phils., Inc.; Jickstar Pharma, Inc.	48th JECFA, 1997; Full ADI	No Codex MRLs	Armenia; EU	48th JECFA requested: "studies to determine the antimicrobial activity of the residues other than enrofloxacin and ciprofloxacin."
Enrofloxacin	Indonesia	Fish	Muscle	GPVD (ex: dosis, withdrawal time, dill)	Minister of Marine Affairs and Fisheries of Indonesia Regulation Number 52/KEPMEN-KP/2014 on Fish Medicine Classification		48th JECFA, 1997; Full ADI	No Codex MRLs	Indonesia	Indonesia exports to some countries. Fish species: Nile Tilapia, Milkfish, Walking Cat fish, gouramy, common carp, barramundi, grouper

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
					Registered. Director General of Aquaculture Decree, Ministry of Marine Affairs and Fisheries of Indonesia Number 56/KEP-DJPB/2014 on Maximum Residue Limits on Fish Products.					
Enrofloxacin	Armenia, Peru	Goat	Muscle, Fat, Liver, Kidney, Milk	Registered in Peru	MRLs (ppb) in Armenia: Muscle 100, Fat 100, Liver 300, Kidney 200, Milk 100	Bayer	48th JECFA, 1997; Full ADI	No Codex MRLs	Armenia; EU	48th JECFA requested: "studies to determine the antimicrobial activity of the residues other than enrofloxacin and ciprofloxacin."
Enrofloxacin	Armenia, Peru, Philippines	Pig	Muscle, Fat, Liver, Kidney	Registered in Peru; Philippines: 0.25ml/10kg BW, Oral; 50-75ppm; 1ml/10-15kg bw (piglet), IM injection; 1ml/20kg bw (adult), IM injection	MRLs (ppb) in Armenia: Muscle 100, Fat 100, Liver 200, Kidney 300	Bayer; Provect International Corporation; Transcend Phils., Inc.; Jickstar Pharma, Inc.	48th JECFA, 1997; Full ADI	No Codex MRLs	Armenia; EU; USA	48th JECFA requested: "studies to determine the antimicrobial activity of the residues other than enrofloxacin and ciprofloxacin."
Enrofloxacin	Belize, Syria	Poultry	Muscle, liver, kidney, fat	Registered in Belize; Registered by the Codex National	Temporary MRLs in Syria: Liver	Enrosol; Various (Bayer, Laboratorios	48th JECFA, 1997; Full	No Codex MRLs	EU; Syria	48th JECFA requested: "studies to

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
				Syrian Committee	(200), Kidney (300), Muscle (100) (Studies under development)	California, Colombia) Anupco UK	ADI			determine the antimicrobial activity of the residues other than enrofloxacin and ciprofloxacin."
Enrofloxacin	Armenia	Rabbit	Muscle, Fat, Liver, Kidney		MRLs (ppb) in Armenia: Muscle 100, Fat 100, Liver 200, Kidney 300	Bayer	48th JECFA, 1997; Full ADI	No Codex MRLs	Armenia; EU	48th JECFA requested: "studies to determine the antimicrobial activity of the residues other than enrofloxacin and ciprofloxacin."
Enrofloxacin	Armenia, Peru	Sheep	Muscle, Fat, Liver, Kidney, Milk	Registered in Peru	MRLs (ppb) in Armenia: Muscle 100, Fat 100, Liver 300, Kidney 200, Milk 100	Bayer	48th JECFA, 1997; Full ADI	No Codex MRLs	Armenia; EU	48th JECFA requested: "studies to determine the antimicrobial activity of the residues other than enrofloxacin and ciprofloxacin."
Enrofloxacin	Peru	Shrimp (Litopenaeus vannamei)		Registered in Peru Enroblend dose: 4 kg/1 ton food		Avimex SA		No Codex MRLs	EU: All food producing species	
Erythromycin	Armenia	Cattle			MRLs (ppb) in Armenia: Muscle (200), Fat (200), Liver (250), Kidney (220), Milk (40) (Studies under development)	Cross Vetpharm	66th JECFA, 2006; Full ADI	Codex MRLs in chicken and turkey	Armenia; Australia; Canada; EU; USA: cattle tissues	Need more specific tissue information Cattle residue data needed

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Erythromycin	Indonesia	Fish	Muscle	No GPVD	Registered. Minister of Marine Affairs and Fisheries of Indonesia Regulation Number 52/KEPMEN-KP/2014 on Aquaculture Drugs Classification		66th JECFA, 2006; Full ADI	No Codex MRLs	Indonesia	Indonesia exports to some countries. Fish species: Nile Tilapia, Milkfish, Walking Cat fish, gouramy, common carp, barramundi, grouper
Erythromycin	Armenia	Goat			MRLs (ppb) in Armenia: Muscle (200), Fat (200), Liver (250), Kidney (220), Milk (40)	Cross Vetpharm	66th JECFA, 2006; Full ADI	Codex MRLs in chicken and turkey	Armenia; Australia; EU	Need more specific tissue information Goat residue data needed
Erythromycin	Armenia	Pig			MRLs (ppb) in Armenia: Muscle (200), Fat (200), Liver (250), Kidney (220), Milk (40)	Cross Vetpharm	66th JECFA, 2006; Full ADI	Codex MRLs in chicken and turkey	Armenia; Australia; Canada; EU; USA	Need more specific tissue information Pig residue data needed
Erythromycin	Armenia	Sheep			MRLs (ppb) in Armenia: Muscle (200), Fat (200), Liver (250), Kidney (220), Milk (40)	Cross Vetpharm	66th JECFA, 2006; Full ADI	Codex MRLs in chicken and turkey	Armenia; Australia; Canada; EU	Need more specific tissue information Sheep residue data needed
Flavophospholipol	Argentina, Costa Rica	Cattle	All tissues; Muscle, fat, liver, kidney,	Argentina: 6-16 ppm oral Costa Rica: 100 ppm oral		Intervet International GmbH, Intervet S.A.		No Codex MRLs	Australia, Japan	

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
			milk							
Flavophospholipol	Argentina, Costa Rica, Philippines	Chicken	All tissues; Muscle, Liver, Kidney, Fat/skin, Egg	Argentina: 20 ppm oral Costa Rica: 100 ppm oral Philippines: 4ppm, Oral; 2.6-5ppm, Oral		Intervet S.A., Intervet International GmbH; APF Corporation; Inphilco, Inc.; RNSV Corporation		No Codex MRLs	Japan	
Flavophospholipol	Argentina, Costa Rica, Philippines	Pig	All tissues; Muscle, Liver, Kidney, Fat/skin	Argentina: 20 ppm oral; Costa Rica: 100 ppm oral; Philippines: 5ppm, Oral; 5-10ppm, Oral; 10-20ppm, Oral		Intervet S.A., Intervet International GmbH; APF Corporation; Inphilco, Inc.; RNSV Corporation		No Codex MRLs	Japan	
Flavophospholipol	Chile	Poultry	Muscle, Fat, Liver, Kidney, Eggs	Registered in Chile		Intervet International GmbH		No Codex MRLs		
Florfenicol	Belize	Aquaculture	Muscle	Registered in Belize	Dossier Avi – Mex SA de CV	Flor-Blend Aqua from Avi-Mex, Mexico; Intervet, Inc.		No Codex MRLs	Australia: fish; Canada: salmonids; EU: finfish; USA: catfish, salmonids	
Florfenicol	Peru	Cattle	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru		Schering, Intervet, Inc.		No Codex MRLs	Australia; Canada; EU; USA	
Florfenicol	Egypt, Peru, Philippines	Chicken	Muscle, fat/ skin, Liver, Kidney, Eggs	Egypt Dosage Regimen: 10 mg/kg bw/day orally; Registered in Peru; Philippines: 20ppm, Oral;		Schering; Carrington Trading, Inc.; Ceva Animal Health Phils., Inc.		No Codex MRLs	EU	

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
				20mg/kg bw, Oral						
Florfenicol	Peru, Republic of Korea	Fish	Muscle	<p>Registered in Peru; Republic of Korea Dosing Regimen: 10 mg/kg b.w. Orally(in feed) for 5 days;</p> <p>1 mg/kg b.w. Orally(in feed) for 5 days;</p> <p>10 a.i. mg/kg b.w. i.m. injection (Bastard halibut) Registered for use in salmon, yellowtail, eel, cherry salmon, Ayu sweetfish. Withdrawal times: 5 day for oral product in yellowtail, 7 days for oral product in eel, 14 days for oral product in salmon, cherry salmon, Ayu sweetfish, 40 days for i.m. injection in bastard halibut</p>		<p>Peru: Schering</p> <p>Republic of Korea: RNL Bio Co., Ltd; JB Solution; Daesung Microbiological Labs Co., Ltd.; Samu Median Co., Ltd; Sung-Won Co., Ltd; Chamshin pharma Co., Ltd; KBNP, INC.; Green cross veteritary products; Dongbu Farm Hanong; Seoul vet pharma; Eaglevet; Daehan New Pharm Coperation; SF., Inc; Samyang Anipharm Co., Ltd.; EWHA PHARMTEK; Jin woo medicine; CTC bio Co., Ltd; Korea thumb vet.; Namjoon local products; ELT Science; WooGene B&G; Daone Chemical; NEL biotech. Ltd; Ubtech;</p>		No Codex MRLs	Australia; Canada: salmonids ; EU: finfish; USA: catfish, salmonids ; Republic of Korea (0.2-fish)	Republic of Korea trade names: MEGAFEN · FI SH solution, DANAPEN-C, Aqua Florfen, Aquaflor, Ultra floro, etc.

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
						HANDONG Co., Ltd. USA: Intervet, Inc.				
Florfenicol	Peru	Goat	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru		Schering		No Codex MRLs	EU	
Florfenicol	Peru, Philippines	Pig	Muscle, Fat/Skin, Liver, Kidney	Registered in Peru; Philippines: Broad Spectrum Antibiotic (Control of Swine Respiratory Diseases), dosage: 20ppm, Oral; 40-80ppm, Oral; 20-40ppm Oral; 20mg/kg bw, Oral; 15mg/kg bw, IM injection product label available	The European Agency for the Evaluation of Medicinal Products- Veterinary Medicines and Inspections: Muscle (300µg/kg), Skin+Fat (500µg/kg), Liver (2000µg/kg) and Kidney (500µg/kg) Australian Pesticide and Veterinary Medicine Authority- Muscle (0.5mg/kg), Skin+Fat (1mg/kg), Liver (3mg/kg) and Kidney (1mg/kg)	Intervet Schering Plough Animal Health Mexico; Carrington Trading, Inc., Plaridel, Virbac Animal Health, Ceva Animal Health, Schering Plough Animal Health, Intervet, Inc.		No Codex MRLs	Australia; Canada; EU	

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Florfenicol	Syria	Poultry	Liver Kidney Muscle	Registered by the Codex National Syrian Committee	Temporary MRLs in Syria: Liver (2500), Kidney (750), Muscle (100) (Studies under development)	Floridin		No Codex MRLs	EU; Syria	
Florfenicol	Peru	Sheep	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru		Schering		No Codex MRLs	EU	
Florfenicol	Peru	Shrimp (Litopenaeus vannamei)		Registered in Peru Florbend dose: 4-5 kg/1 ton food		Avimex SA		No Codex MRLs		
Flumequine	Armenia	Cattle	Milk		MRLs (ppb) in Armenia: Muscle 200, Fat 300, Liver 300, Kidney 500, Milk 50	Unknown	48th JECFA, 2006; Full ADI	Codex MRLs in fat, kidney, liver, and muscle	Armenia; EU	48th JECFA did not receive residue data for milk
Flumequine	Armenia	Chicken	Fat with Skin		MRLs (ppb) in Armenia: Muscle 400, Fat and Skin 250, Liver 800, Kidney 1000	Unknown	48th JECFA, 2006; Full ADI	Codex MRLs in fat, kidney, liver, and muscle	Armenia; EU	
Flumequine	Chile	Salmonids	Muscle and Skin, in natural proportion	Registered in Chile, Dose regimen in Chile. Dose: 10 to 30 mg / kg / day x 10 days Withdrawal Period: 300 degree day	European U. (EMA): ADI of 8.25 mg / kg BW / day or 495 mg / person / day European U. (EMA): 600 mg / kg Japan: 500		66th JECFA, 2006; Full ADI	Codex MRLs in cattle, pig, sheep, chicken, and trout	EU, Japan	Codex MRLs in trout, additional residue data may be required to cover all finfish

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
					ug / kg					
Flumequine	Armenia	Goat	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 200, Fat 300, Liver 300, Kidney 500, Milk 50	Unknown	66th JECFA, 2006; Full ADI	Codex MRLs in cattle, pig, sheep, chicken, and trout	Armenia; EU	Goat residue data needed
Flumequine	Armenia	Sheep	Milk		MRLs (ppb) in Armenia: Muscle 200, Fat 300, Liver 300, Kidney 500, Milk 50	Unknown	66th JECFA, 2006; Full ADI	Codex MRLs in fat, kidney, liver, and muscle	Armenia; EU	48th JECFA did not receive residue data for milk
Flumetrina (Flumethrin)	El Salvador Guatemala	Bees	Honey	El Salvador: 3.6 mg/plate		Unknown		No Codex MRLs	EU: not required	
Flunixin meglumine	Costa Rica, El Salvador	Cattle	Muscle, Fat, Kidney, Liver, Milk	Costa Rica: 83 mg/mL parenteral El Salvador: Concentration 50 mg / ml dose. 0.44 ml / kg 100 P.V. every 24 h maximum 5 days		Schering Plough, Calox Venezuela		No Codex MRLs	Australia; Canada; EU; USA	
Flunixin meglumine	Costa Rica, El Salvador	Pig	Muscle, Fat, Kidney, Liver	Costa Rica: 83 mg/mL parenteral El Salvador: Concentration 50 mg / ml dose. 0.44 ml / kg 100 P.V. every 24 h maximum 5 days		Schering Plough, Calox Venezuela		No Codex MRLs	Canada; EU; USA	
Flunixin meglumine	El Salvador	Sheep	Muscle, Fat, Kidney, Liver	Concentration 50 mg / ml dose. 0.44 ml / kg 100 P.V. every 24 h maximum 5 days		Unknown				
Flunixin meglumine	El Salvador	Goat	Muscle, Fat, Kidney,	Concentration 50 mg / ml dose. 0.44 ml / kg 100 P.V.		Unknown				

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
			Liver	every 24 h maximum 5 days						
Formic Acid	Guatemala	Bees	Honey			Unknown		No Codex MRLs	EU: all food producing species - not required	
Phosphomycin	Costa Rica	Chicken	All tissues	300 - 500 ppm, oral		Bedson de Centroamerica		No Codex MRLs		Need more specific tissue information
Phosphomycin	Chile	Poultry	Skin and Fat, Muscle, Liver, Kidney	Registered in Chile Dose in broiler chickens: Oral fosfomycin calcium 40 mg / kg BW / day for 3 to 5 days Withholding period: Meat: 7 days	Toxicological Intake: 175 mg / kg P.V. / day Microbiological ADI: 0.019 mg / kg P.V. / day (Food Safety Commission of Japan, 2010)	Bedson S.A.		No Codex MRLs		
Fumagillin	Guatemala	Bees	Honey			Unknown		No Codex MRLs		
Gentamicin	Egypt	Chicken	Meat fat/ skin Liver Kidney Eggs	5mg/kg bw/day orally		Bayer ADWIA	50th JECFA, 1998; Full ADI	Codex MRLs in cattle and pig	Canada; USA	Chicken residue data needed
Halquinol	El Salvador	Poultry	Muscle, Liver, Kidney	30-60 ppm Oral		Unknown		No Codex MRLs		
Halquinol	El Salvador	Pig	Muscle, Liver, Kidney	30-60 ppm Oral		Unknown		No Codex MRLs		
Hydrocortisone	Democratic People's Republic of Korea	Pig		Oral, 0.1 - 0.3g three times a day		Unknown		No Codex MRLs	EU: all food producing species - not required	Need more specific tissue information

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Ivermectin	19th CCRVDF	Camel	all tissues				58th JECFA, 2002; Full ADI	Codex MRLs in cattle, pig, and sheep	EU	Need more specific tissue information Camel residue data needed
Ivermectin	Uruguay, 19th CCRVDF	Cattle	Muscle	Uruguay: Endectocide. Dosage regimen is parenteral (1% & 2% product): 0.2 mg/kg bw in cattle, sheep, horses, and goats; 0.3 mg/kg bw in swine; 3.15% product has dose of 0.63 mg/kg in cattle; 3.5% product has dose of 0.75 mg/kg bw in cattle. Widely used in the country in food producing animals. Registered in Uruguay: 80 registered 1% Ivermectin, 1 registered 2% Ivermectin, 18 registered 3.15% Ivermectin, and 3 registered 3.5% Ivermectin, Product label available	MRLs (ppb) in US: Cattle Muscle (10).	Merial	58th JECFA, 2002; Full ADI; 78th JECFA, MRLs recommended	Codex MRLs liver, fat, and milk	Australia; Canada; EU; USA	Proposed draft MRL at Step 3
Ivermectin	Uruguay	Horse	Muscle	Uruguay: Endectocide, Dosage regimen is parenteral 0.2 mg/kg bw, Widely used in the country in food	MRLs (ppb) in US: Cattle Muscle (10).	Merial	58th JECFA, 2002; Full ADI	Codex MRLs in cattle, pig, and sheep	Australia; EU	Horse residue data needed

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
				producing animals. Registered in Uruguay: 80 registered 1% Ivermectin, 1 registered 2% Ivermectin, 18 registered 3.15% Ivermectin, and 3 registered 3.5% Ivermectin, product label available						
Ivermectin	Guatemala	None specified				Merial	58th JECFA, 2002; Full ADI	Codex MRLs in cattle, pig, and sheep	Australia: cattle, deer, horse, pig, sheep; Canada: cattle, sheep, pig; EU: all mammalian food producing species; USA: cattle, swine, sheep, reindeer, American bison	Need to better define species and tissues
Ivermectin	19th CCRVDF	Rabbit	all tissues				58th JECFA, 2002; Full ADI	Codex MRLs in cattle, pig, and sheep	EU	Need more specific tissue information Rabbit residue data needed

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Ivermectin	Uruguay	Sheep	Muscle	Uruguay: Endectocide, Dosage regimen is parenteral 0.2 mg/kg bw, Widely used in the country in food producing animals. Registered in Uruguay: 80 registered 1% Ivermectin, 1 registered 2% Ivermectin, 18 registered 3.15% Ivermectin, and 3 registered 3.5% Ivermectin, product label available	MRLs (ppb) in US: Cattle Muscle (10).	Merial	58th JECFA, 2002; Full ADI	Codex MRLs in liver and fat	Australia; Canada; EU: fat, liver, kidney; USA: liver	36th JECFA recommended MRLs in liver and fat only because residues were highest in these tissues and suitable methods were available.
Kanamycin	Armenia	All livestock except fish			MRLs in Armenia: Muscle (100), Fat (100), Liver (600), Kidney (2500), Milk (150)	Wyeth	12th JECFA, 1968; No ADI	No Codex MRLs	Armenia; EU: all food producing species except fin fish	Need to better define species and tissues 12th JECFA reported: "Kanamycin could not be fully evaluated toxicologically on the basis of the data that were made available."
Ketoprofen	El Salvador	Cattle	Muscle, Fat, Kidney, Liver	Concentration of 100 mg / ml dose: 1 ml / 30 kg bw every 24 h for 3-5 days		Unknown		No Codex MRLs		
Ketoprofen	El Salvador	Pig	Muscle, Fat, Kidney, Liver	Concentration of 100 mg / ml dose: 1 ml / 30 kg bw every 24 h for 3-5 days		Unknown		No Codex MRLs		
Kitasamycin	Costa Rica	Chicken	All tissues	110 - 330 ppm oral		Anupco, Inglaterra		No Codex MRLs	Australia	Need more specific tissue

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
										information
Kitasamycin	Costa Rica	Pig	All tissues	110 - 330 ppm oral		Anupco, Inglaterra		No Codex MRLs	Australia	Need more specific tissue information
Levamisole	Morocco	Goat	Fat, Muscle, Liver, Kidney	Registered in Morocco	EU regulation 37/2010	ATLAS Vétérinaire BCI CEVA INTERVET CALIER PHARMA 5 ECOMED	42nd JECFA, 1994; Full ADI	Codex MRLs in cattle, sheep, and poultry.	Australia; Canada: cattle, sheep; EU: cattle, sheep; USA: cattle, sheep	Goat residue data needed
Lincomycin	Armenia	Cattle			MRLs (ppb) in Armenia: Muscle (100), Fat (50), Liver (500), Kidney (1500), Milk (150)	Pfizer	62nd JECFA, 2004; Full ADI	Codex MRL in milk	Armenia; Australia; EU	Need more specific tissue information
Lincomycin	Armenia	Chicken			MRLs (ppb) in Armenia: Muscle (100), Fat (50), Liver (500), Kidney (1500), Egg (50)	Pfizer	62nd JECFA, 2004; Full ADI	Codex MRLs in liver, kidney, muscle, fat, and fat with skin	Armenia; Australia; Canada; EU; USA	Need more specific tissue information
Lincomycin	Armenia	Goat			MRLs (ppb) in Armenia: Muscle (100), Fat (50), Liver (500), Kidney (1500), Milk (150)	Pfizer	62nd JECFA, 2004; Full ADI	Codex MRLs in Cattle milk, and pig and chicken tissues	Armenia; Australia; EU	Need more specific tissue information Goat residue data needed
Lincomycin	Armenia	Sheep			MRLs (ppb) in Armenia: Muscle (100), Fat (50), Liver	Pfizer	62nd JECFA, 2004; Full ADI	Codex MRLs in Cattle milk, and pig and	Armenia; EU	Need more specific tissue information Goat residue

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
					(500), Kidney (1500), Milk (150)			chicken tissues		data needed
Lufenuron	Chile	Salmonids	Muscle/skin, in natural proportions	Chile to start registration Proposed dose: 5 mg/kg/day x 7 days in food	EU (EMA): ADI of 0.015 mg/kg P.V./day or 0.9 mg/person/day EU (EMA): Salmonids: 1350 ug/kg	Novartis Animal Health	None	No Codex MRLs	EU	
Marbofloxacin	Armenia	Cattle			MRLs in Armenia: Muscle (150), Fat (50), Liver (150), Kidney (150), Milk (75)	Unknown		No Codex MRLs	Armenia; EU	Need more specific tissue information
Marbofloxacin	Armenia	Goat			MRLs (ppb) in Armenia: Muscle (150), Fat (50), Liver (150), Kidney (150), Milk (75)	Unknown		No Codex MRLs	Armenia	Need more specific tissue information
Marbofloxacin	Armenia	Sheep			MRLs in Armenia: Muscle (150), Fat (50), Liver (150), Kidney (150), Milk (75)	Unknown		No Codex MRLs	Armenia	Need more specific tissue information
Mebendazole	Costa Rica	Cattle	All tissues	500 - 600 ppm, oral		Schering Plough, Cenavisa, Espana		No Codex MRLs	Australia	Need more specific tissue information

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Mebendazole	Costa Rica, Philippines	Chicken	All tissues; Muscle, Liver, Kidney, Egg	Costa Rica: 500 - 600 ppm, oral; Philippines: 60ppm, Oral; 60-120ppm, Oral		Schering Plough, Cenavisa, Espana; Equalivet; JCS Chemical Industries, Inc.; Transcend Phils., Inc.; Masstock Laboratories		No Codex MRLs		Need more specific tissue information
Mebendazole	Costa Rica, Philippines	Pig	All tissues; Muscle, Liver, Kidney	Costa Rica: 500 - 600 ppm, oral; Philippines: 15-60ppm, Oral; 30-60ppm, Oral; 30-72ppm, Oral		Schering Plough, Cenavisa, Espana; Equalivet; JCS Chemical Industries, Inc.; Transcend Phils., Inc.; Masstock Laboratories		No Codex MRLs	Australia	Need more specific tissue information
Monensin	Guatemala	None specified				Elanco	70th JECFA, 2008; Full ADI	Codex MRLs in quail, cattle, sheep, goat, chicken, and turkey	Australia: cattle, goat, poultry, sheep; Canada: cattle, chicken, turkey; EU: cattle; USA: cattle, goat, chicken, turkey, quail	Need to better define species and tissues
Nafcillin	Armenia	All ruminant animals	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 300, Fat 300,	Unknown		No Codex MRLs	Armenia; EU: all ruminants	Need to better define species

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
					Liver 300, Kidney 300, Milk 30					
Nandrolone	Guatemala	None specified				Unknown		No Codex MRLs		Need to better define species and tissues
Nitarsonsone	Algeria	Turkey	Muscle	Dosage (blend mode): 189.5 ppm. This rate is obtained by mixing 340.5g histostat of 50 in a total rotation of 909 kg		Alpharma BVBA				
Norfloxacin	Belize	Aquaculture	Muscle	Registered in Belize		Various (Bayer, Laboratorios California, Colombia) Anupco UK		No Codex MRLs		
Norfloxacin	Belize, Philippines	Poultry	Muscle, liver, kidney, fat, egg	Registered in Belize; Philippines: 100ppm, Oral; 25-50ppm, Oral		Various (Bayer, Laboratorios California, Colombia) Anupco UK; Jickstar Pharma, Inc.; Chemvet Products; Apt Vet Link, Inc.; Carrington Trading, Inc.		No Codex MRLs		
Novobiocin	Armenia	Cattle			MRLs (ppb) in Armenia: Milk (50)	Pfizer	12th JECFA, 1968; Full ADI	No Codex MRLs	Armenia: milk; Australia; Canada; EU; USA	Need more specific tissue information Summary of 12th JECFA: "When novobiocin is used, it should not be allowed to give rise to

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
										detectable residues in food for human consumption. The quantification limits of the analytical methods recommended by the Committee are: milk 0-0.15 mg/kg; meat 0-0.5mg/kg; and eggs 0-0.1 mg/kg."
Oxacillin	Armenia	All ruminant animals	Muscle, Liver, Kidney, Milk		MRLs (ppb) in Armenia: Muscle 300, Fat 300, Liver 300, Kidney 300, Milk 30	Unknown		No Codex MRLs	Armenia; EU: all food producing species	Need to better define species
Oxalic Acid	Guatemala	Bees	Honey			Unknown		No Codex MRLs	EU: not required	
Oxolinic Acid	Chile, Republic of Korea	Finfish, Salmonids	Muscle and Skin	Registered in Chile, Dose regimen in Chile Dose: 10 to 30 mg / kg / day x 10 days Withdrawal period: 450 degree day Republic of Korea Dosing Resimen: 5-10 a.i. mg/kg b.w. Orally(in feed) for 5-7 days(carp, Aeromonas hydrophila); 5-20 a.i. mg/kg b.w. - Orally(in feed) for	European U. (EMA): ADI of 2.5 mg / kg P.V. / day or 150 mg / person / day European U. (EMA): 100 mg / kg Japan: 50 mg / kg	Republic of Korea: Samyang Anipharm Co., Ltd.; Sung-Won Co., Ltd; Dongbu Farm Hanong; HANDONG Co., Ltd.; WooGene B&G; WooSung Vet.; Samu Median Co., Ltd; Chamshin pharma Co., Ltd; SF., Inc;	43rd JECFA, 1994; No ADI	No Codex MRLs	EU; Republic of Korea (0.1-cherry salmon, salmon, Yellowtail, eel, Ayu sweetfish, carp); Japan	Summary of 43rd JECFA: "In view of the major deficiencies in the reporting and protocols of the toxicological studies available for evaluation, and as a clear NOEL in the arthropathy study in dogs could not be identified, the

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
				3-5 days(cherry salmon, <i>Vivrio anguillarum</i>); 5-10 a.i. mg/kg, Orally (in feed) for 5-7 days(salmon, <i>Aeromonas salmonicida</i>) 5-20 a.i. mg/kg b.w. Orally(in feed) for 4-6 days(eel, <i>Aeromonas hydrophila</i>) 5-20 a.i. mg/kg b.w. Orally(in feed) for 5-7 days(eel, <i>Edwardsiella tarda</i>) 1-5 a.i. mg/kg b.w. Orally(in feed) for 3-5 days(eel, <i>Pseudomonas anguillaum</i>) 10-30 a.i. mg/kg b.w. Orally(in feed) for 5 days(yellowtail, <i>Pasteurella piscicida</i>) 5-20 a.i. mg/kg b.w. Orally(in feed) for 3-7 days(ayu sweetfish, <i>Vivrio anguillarum</i>); 5-20 a.i. mg/kg b.w. Orally(in feed) for 4-6 days(eel, <i>Aeromonas hydrophila</i>); 10-30 a.i. mg/kg b.w. Orally(in feed) for 3-7 days; 10-20 a.i. mg/kg b.w. Orally(in feed)		Bayer Korea Limited.; Seoul vet pharma; Daehan New Pharm Coperation; Korea thumb vet.; Namjoon local products; NEL biotech. Ltd; EWHA PHARMTEK; Green cross veteritary products; Dawon Chemical				Committee was unable to establish an ADI. The Committee was not able to set MRLs for oxolinic acid because no ADI was established. No additional residue data were requested."

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
				(eel, carp, cherry salmon); 10-30 a.i. mg/kg b.w. Orally(in feed) (yellowtail); 5-10 a.i. mg/kg b.w. Orally(in feed) for 5-7 days (salmon, Aeromonas salmonicida); 5-20 a.i. mg/kg b.w. Orally(in feed) for 3-5 days(salmon, Vivrio anguillarum); 20 a.i. mg/kg b.w. - Orally(in feed) for 5 days(eel, Edwardsiella trada); 5-10 a.i. mg/kg b.w. Oral(in feed) for 3-7 days; 4-10 a.i. mg/kg water, Dip treatment for 5-8 hours; 1 a.i. g/kg water, Dip treatment for 24 hours(carp, Aeromonas spp.)						
Oxytetracycline	Armenia	All livestock			MRLs (ppb) in Armenia: Muscle (300), Liver (300), Kidney (100), Milk (100)	Pfizer, Boehringer Ingeleheim, Phibro, Pennfield	50th JECFA, 1998; 58th JECFA, 2002; Full ADI	Codex MRLs in cattle, pig, sheep, poultry, fish, and giant prawn	Armenia; Australia: fish, bees, cattle, goat, pig, sheep, mammals, poultry, shrimp, prawns; Canada: cattle, pig, sheep, salmonids, lobster,	Need to better define species and tissues

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
									chicken, turkey, bees; EU: all food producing species; USA: beef cattle, dairy cattle, calves, swine, sheep, chicken, turkey, finfish, lobster	
Oxytetracycline	Argentina, El Salvador, Republic of Korea	Bees	Honey	Registered in Argentina in cattle, sheep, goats, pigs, bees, fur bearing animals, and aquaculture Republic of Korea Dosing Regimen : 0.03 g a.i./comb (3 combs-0.09 g, 5 combs-0.15g, 8 combs-0.24g) El Salvador: Concentration: 1.200 mg / 100 g; Dose: 100 g for 12 hives or 8 grams per hive for 10 days, once a month.		Argentina: Unknown El Salvador: Unknown Republic of Korea: Ubtech	50th JECFA, 1998; 58th JECFA, 2002; Full ADI	Codex MRLs in cattle, pig, sheep, poultry, fish, and giant prawn	Australia; Canada; Republic of Korea (0.3-honey)	Honey residue data needed
Oxytetracycline	Peru	Goat	Muscle	1.0-2.0 ml/10 kg. P.v.	National Residue Program and contaminants in food	Vetipharm Lab		Codex MRLs in cattle, pig, sheep, poultry, fish, and	Australia; EU: all food producing species	

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
								giant prawn		
Oxytocin	Costa Rica	Cattle	Tissues and milk	10 IU/mL, parenteral		Boehringer Ingelheim, Wyeth, Teva, United Vaccines, Cross Vetpharm, Intervet, Holanda, Apropharma		No Codex MRLs	EU: not required	
Oxytocin	Costa Rica	Pig	Tissues	10 IU/mL, parenteral		Boehringer Ingelheim, Wyeth, Teva, United Vaccines, Cross Vetpharm, Intervet, Holanda, Apropharma		No Codex MRLs	EU: not required	Need more specific tissue information
Oxytocin	Costa Rica	Sheep	Tissues and milk	10 IU/mL, parenteral		Boehringer Ingelheim, Wyeth, Teva, United Vaccines, Cross Vetpharm, Intervet, Holanda, Apropharma		No Codex MRLs	EU: not required	
Phenoxymethylpenicillin	Armenia	Cattle	Muscle, Liver, Skin, Kidney, Milk	Intramuscular	MRLs (ppb) in Armenia: Muscle 25, Skin and Fat: 25, Liver 25, Kidney 50, Milk 4	Unknown		No Codex MRLs	Armenia	
Phenoxymethylpenicillin	Armenia	Pig	Muscle, Liver, Skin, Kidney, Milk	Intramuscular	MRLs (ppb) in Armenia: Muscle 25, Skin and Fat: 25, Liver 25, Kidney 50,	Unknown		No Codex MRLs	Armenia; EU	

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
					Milk 4					
Phenoxymethylpenicillin	Armenia	Poultry	Muscle, Liver, Skin, Kidney, Milk	Intramuscular	MRLs (ppb) in Armenia: Muscle 25, Skin and Fat: 25, Liver 25, Kidney 50, Milk 4	Unknown		No Codex MRLs	Armenia; EU	
Phenoxymethylpenicillin	Armenia	Sheep	Muscle, Liver, Skin, Kidney, Milk	Intramuscular	MRLs (ppb) in Armenia: Muscle 25, Skin and Fat: 25, Liver 25, Kidney 50, Milk 4	Unknown		No Codex MRLs	Armenia	
Phosphomycin	Argentina	Aquaculture	Muscle Skin and fat Liver Kidney Milk Eggs	Dose in poultry and pigs: 10 mg/Kg Pv to 40 mg /Kg Pv, Registered in Argentina in poultry and pigs, but not cattle and aquaculture	ADI Japan: 0.019 mg/Kg Pv/day	Bedson S.A.		No Codex MRLs	Japan	
Phosphomycin	Argentina	Cattle	Muscle Skin and fat Liver Kidney Milk Eggs	Dose in poultry and pigs: 10 mg/Kg Pv to 40 mg /Kg Pv, Registered in Argentina in poultry and pigs, but not cattle and aquaculture	ADI Japan: 0.019 mg/Kg Pv/day	Bedson S.A.		No Codex MRLs	Japan	
Phosphomycin	Argentina	Pig	Muscle Skin and fat Liver Kidney Milk Eggs	Dose in poultry and pigs: 10 mg/Kg Pv to 40 mg /Kg Pv, Registered in Argentina in poultry and pigs, but not cattle and aquaculture	ADI Japan: 0.019 mg/Kg Pv/day	Bedson S.A.		No Codex MRLs		
Phosphomycin	Argentina	Poultry	Muscle Skin and fat	Dose in poultry and pigs: 10 mg/Kg Pv to 40 mg /Kg Pv,	ADI Japan: 0.019 mg/Kg Pv/day	Bedson S.A.		No Codex MRLs		

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
			Liver Kidney Milk Eggs	Registered in Argentina in poultry and pigs, but not cattle and aquaculture						
Phosphomycin	Peru	Shrimp (Litopenaeus vannamei)		Registered in Peru for use in shrimp (Magna mix-aqua) dose: 4-5 kg/1 ton food	ADI Japan: 0.019 mg/Kg Pv/day	AVI-MEX S.A.		No Codex MRLs		
Piperazine	Democratic People's Republic of Korea	Pig		Oral, 0.4 g/kg BW/day		Fleming Labs		No Codex MRLs	EU; USA	Need more specific tissue information
Pirlimycin	Armenia	Chicken			MRLs (ppb) in Armenia: Muscle (100), Skin and Fat (50), Liver 500), Kidney (1500), Egg (50)	Pfizer	62nd JECFA, 2004; Full ADI	Codex MRLs in cattle	Armenia	Need more specific tissue information Chicken residue data needed
Pirlimycin	Armenia	Pig			MRLs (ppb) in Armenia: Muscle (100), Skin and Fat (50), Liver (500), Kidney (1500)	Pfizer	62nd JECFA, 2004; Full ADI	Codex MRLs in cattle	Armenia	Need more specific tissue information Pig residue data needed
Ractopamine	Guatemala	None specified				Elanco	Most recent evaluation by JECFA in 2010; Full ADI; MRLs recommended in cattle and pig	Codex MRLs in cattle and pig	Australia: pig; Canada: pig, cattle, turkey; USA: cattle, swine, turkey	Need to better define species and tissues

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Rafoxanide	Morocco	Cattle	Muscle, Fat, Liver, Kidney	Registered in Morocco	EU regulation 37/2010	ATLAS Vétérinaire BCI CEVA INTERVET NOVOVET ECOMED		No Codex MRLs	EU	
Rafoxanide	Morocco	Sheep	Muscle, Fat, Liver, Kidney	Registered in Morocco	EU regulation 37/2010	ATLAS Vétérinaire BCI CEVA INTERVET NOVOVET ECOMED		No Codex MRLs	EU	
Rifamycine	Egypt	Chicken	Meat fat/ skin Liver Kidney Eggs	10 mg/kg bw/day orally		EI- NASR		No Codex MRLs		
Rifaximine	Armenia	Cattle			MRLs (ppb) in Armenia: Milk (60)	Unknown		No Codex MRLs	Armenia: milk; EU: not required	Need more specific tissue information
Robenidine	Costa Rica	Chicken	Tissues	500 ppm, oral		Alpharma, Inc., Farivet		No Codex MRLs	Australia; Canada	Need more specific tissue information
Roxarsone	Peru	Chicken	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru				No Codex MRLs	Canada; USA	
Roxarsone	Belize	Poultry	Muscle, Kidney	Registered in Belize		Helm Mexico and Calier Spain		No Codex MRLs	Canada: chicken, turkey; USA: chicken, turkey	
Salicylic acid	Democratic People's Republic of Korea	All		Tetter, Applied, Ointment (5-10%)		Democratic People's Republic of Korea		No Codex MRLs	EU: not required	Need to better define species and tissues

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Streptomycin	Armenia	Goat			MRLs (ppb) in Armenia: Muscle (500), Fat (500), Liver (500), Kidney (1000), Milk (200)	Unknown	58th JECFA, 2002; Full ADI	Codex MRLs in cattle, pig, sheep, and chicken	Armenia; Australia; Canada: cattle; EU; USA: calves	Need more specific tissue information Goat residue data needed
Sulfadiazine	El Salvador	Cattle	Muscle, Fat, Kidney, Liver	Concentration: 400 mg / ml. Dose: 3 ml / 100 kg P.V. for 5 days		Unknown		No Codex MRLs		
Sulfadiazine	El Salvador	Sheep	Muscle, Fat, Kidney, Liver	Concentration: 400 mg / ml. Dose: 3 ml / 100 kg P.V. for 5 days		Unknown		No Codex MRLs		
Sulfadiazine	El Salvador	Pig	Muscle, Fat, Kidney, Liver	Concentration: 400 mg / ml. Dose: 3 ml / 100 kg P.V. for 5 days		Unknown		No Codex MRLs		
Sulfadimethoxine	Democratic People's Republic of Korea	All		Bacterial infection; Oral, 0.05-0.1g/kg-bw/day, or injection, 15-30% solution (subcutaneous, intravenous)		Alpharma		No Codex MRLs	Canada: cattle, swine, horse, chicken, turkey; EU: all food producing species; USA: chicken, turkey, cattle, duck, salmonids, catfish, chukar partridges	Need to better define species and tissues

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Sulfamerazine	Democratic People's Republic of Korea	All		Bacterial infection, coccidiosis; Oral, 0.05-0.1g/kg•bw/day, or injection, 15-30% solution (subcutaneous, intravenous)		Alpharma		No Codex MRLs	Canada: cattle, sheep, pig; EU: all food producing species	Need to better define species and tissues
Sulfamethoxypyridazine	Democratic People's Republic of Korea	All		Bacterial infection; Oral, 0.02-0.2 g/kg•bw/day		Unknown		No Codex MRLs	EU: all food producing species; USA: swine, cattle	Need to better define species and tissues
Sulfaquinoxaline	Democratic People's Republic of Korea	Poultry		Bacterial infection, coccidiosis; Oral, 0.02-0.03% of the feed for prevention, 0.05-0.07% for therapy for 3 days		Teva		No Codex MRLs	Australia; Canada: chicken, turkey; EU; USA: chicken, turkey	Need more specific tissue information
Sulfaquinoxaline	Democratic People's Republic of Korea	Rabbit		Coccidiosis; Oral, 0.01-0.02% of the feed for prevention for 10 days, 0.05-0.07% for therapy for 3-5 days		Teva		No Codex MRLs	Canada; EU	Need more specific tissue information
Sulfonamides	Guatemala	None specified				Unknown		Codex MRLs in cattle milk and tissues of unspecified species	EU: all food producing species	Need to better define species and tissues
Tetracycline	Guatemala	Bees	Honey			Pfizer, Boehringer, Igelheim, Wyeth, Alpharma, Medpharmex, Agri Laboratories,	50th JECFA, 1998; Full ADI	Codex MRLs in cattle, pig, sheep, poultry, fish, and giant prawn		Honey residue data needed

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
						Teva				
Tetracycline	Indonesia	Fish	Muscle	GPVD (ex: dosis, withdrawal time, dill)	Registered. Minister of Marine Affairs and Fisheries of Indonesia Regulation Number 52/KEPMEN-KP/2014 on Fish Medicine Classification . Director General of Aquaculture Decree, Ministry of Marine Affairs and Fisheries of Indonesia Number 56/KEP-DJPB/2014 on Maximum Residue Limits on Fish Products.		Tetracycline : 50th JECFA 1998; Full ADI. Oxytetracycline: 50th JECFA, 1998; 58th JECFA, 2002; Full ADI.	No Codex MRLs	Indonesia	Indonesia exports to some countries. Fish species: Nile Tilapia, Milkfish, Walking Cat fish, gouramy, common carp, barramundi, grouper
Tetracycline	Armenia	Goat			MRLs (ppb) in Armenia: Muscle (100), Liver (300), Kidney (600), Milk (100)	Pfizer, Boehringer, Igelheim, Wyeth, Alpharma, Medpharmex, Agri Laboratories, Teva	50th JECFA, 1998; Full ADI	Codex MRLs in cattle, pig, sheep, poultry, fish, and giant prawn	Armenia; Canada: cattle, sheep; EU; USA: calves	Need more specific tissue information Goat residue data needed

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Thymol	Guatemala	Bees	Honey			Unknown		No Codex MRLs		
Tildipirosin	El Salvador	Pig	Muscle, Fat, Kidney, Liver	Concentration 40 mg / ml; rate 1 ml / 10 kg P.V. intramuscular		Unknown		No Codex MRLs		
Tilmicosin	Armenia	Cattle			MRLs (ppb) in Armenia: Milk (40)	Elanco	70th JECFA, 2008; Full ADI	Codex MRLs in fat, kidney, liver, and muscle	Armenia: milk; Australia; Canada; EU; USA	If seeking MRL for cattle milk, residue data needed
Tilmicosin	19th CCRVDF, Thailand	Chicken	Eggs				70th JECFA, 2008; Full ADI	Codex MRLs in cattle, pig, sheep, chicken, and turkey tissues		Egg residue data needed
Tilmicosin	19th CCRVDF	Turkey	Eggs				70th JECFA, 2008; Full ADI	Codex MRLs in cattle, pig, sheep, chicken, and turkey tissues		Egg residue data needed
Tolfinamic Acid (tolfin)	Egypt	Cattle	Meat /fat Liver Kidney Milk	2 mg/kg bw/day i.m/i.v				No Codex MRLs	EU	Egg residue data needed
Triamcinolone	Argentina	Cattle	Muscle	Route of administration IM, 7mg/300kg; Registered in Argentina		Unknown		No Codex MRLs		
Triamcinolone	Argentina	Goat	Muscle	Route of administration IM, 7mg/300kg; Registered in Argentina		Unknown		No Codex MRLs		

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Triamcinolone	Argentina	Pig	Muscle	Route of administration IM, 7mg/300kg; Registered in Argentina		Unknown		No Codex MRLs		
Triamcinolone	Argentina	Sheep	Muscle	Route of administration IM, 7mg/300kg; Registered in Argentina		Unknown		No Codex MRLs		
Triclabendazole	Peru	Cattle	Milk	1 ml/30 kg p.v.	National Residue Program and contaminants in food	Agrovet Market	70th JECFA, 2008; Full ADI	Codex MRLs in cattle kidney, liver, muscle, fat/skin		
Triclabendazole	Kenya, Iran	Goat	Liver, Kidney, Milk, Muscle	Iran dosage regimen: 5 mg/kg oral		Novartis	70th JECFA, 2008; Full ADI	Codex MRLs in cattle and sheep	Australia; EU	Goat residue data needed
Trimethoprim	Peru	Cattle	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru		Roche		No Codex MRLs	Australia; EU	
Trimethoprim	Peru	Chicken	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru		Roche		No Codex MRLs	Australia; EU	
Trimethoprim	Morocco	Every producing food species	Fat, Muscle, Liver, Kidney, Milk	Registered in Morocco	EU regulation 37/2010	ATLAS Vétérinaire VIRBAC CEVA SOPHAVET INTERVET NOVOVET BIMEDA UPHAR FRANVET		No Codex MRLs	Australia: mammals, poultry; Canada: salmonids ; EU: horse, all other food producing species	Need more specific species information

Name	Countries Requesting	Species	Tissues	Good Practice in the Use of Veterinary Drugs (GPVD)	Existing Data & Source	Manufacturer	JECFA Evaluation	Codex MRLs	Member Country MRLs	COMMENTS
Trimethoprim	Peru	Goat	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru		Roche		No Codex MRLs	Australia; EU	
Trimethoprim	Peru	Pig	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru		Roche		No Codex MRLs	Australia; EU	
Trimethoprim	Peru	Sheep	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru		Roche		No Codex MRLs	Australia; EU	
Virginiamycin	Peru	Cattle	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru				No Codex MRLs	Australia; USA: not required	
Virginiamycin	Peru	Chicken	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru				No Codex MRLs	Australia; USA: broiler chickens - not required	
Virginiamycin	Guatemala	None specified				Phibro, Alpha		No Codex MRLs	Australia: cattle, pig, poultry, sheep; USA: swine	Need to better define species and tissues
Virginiamycin	Peru	Pig	Muscle, Liver, Fat/Skin, Kidney	Registered in Peru				No Codex MRLs	Australia; USA	
Zeranol	El Salvador	Cattle	Fat, Kidney	Concentration 12mg / subcutaneous implant		Unknown	32nd JECFA, 1987; Full ADI	Codex MRLs in cattle muscle and liver		

Appendix 2: Form for additions/revisions to the Database

*New or Revised	Name	Species	Tissues	Good Practice in the use of Veterinary Drugs	Existing Data & Source	Manufacturer	Past JECFA Evaluation	Existing Codex MRLs	Member Country MRLs	Comments
<i>N</i>	<i>Example: Florfenicol</i>	<i>Chicken</i>	<i>Muscle, fat/skin, liver, kidney, eggs</i>	<i>Philippines: 20ppm, Oral; 20mg/kg bw, Oral</i>	<i>None</i>	<i>Schering; Carrington Trading, Inc.; Ceva Animal Health Phils. Inc.</i>	<i>None</i>	<i>No Codex MRLs</i>	<i>EU</i>	

*Please select N if this is a new request to the database; select R if this revises an existing request.