



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

Twenty-fourth Session

DATABASE ON COUNTRIES' NEEDS FOR MRLs

Report of the EWG-CCR/VDF: Argentina, Australia, Belgium, Bolivia, Brazil, Chile, Costa Rica, Cuba, Egypt, France, India, Iran, Italy, Japan, Malaysia, New Zealand, Nigeria, Panama, Paraguay, Peru, Republic of Korea, South Africa, Thailand, Uganda, United States, Uruguay, Venezuela, Food and Agriculture Organization of the United Nations (FAO), World Organization for Animal Health (OIE), FoodDrinkEurope, International Dairy Federation (IDF), and Safe Supply of Affordable Food Everywhere (SSAFE).

BACKGROUND

1. The CCR/VDF at its 23rd session agreed to establish an electronic working group (EWG) co-hosted by Costa Rica and the United States of America, with the following Terms of Reference:

- To consider the complete results of the global survey in order to identify priority veterinary drugs; and
- To identify information gaps for a successful and comprehensive assessment by JECFA.

Procedures Electronic Working Group

2. The goal of this EWG is to identify ten high-priority veterinary drugs to enable Members to work together to fill information gaps that impede a JECFA evaluation. The EWG membership were by electronic mail and the Codex Alimentarius web platform.

3. In the first round of comments, members were asked to review the initial list of high priority veterinary drugs. Comments were received from Argentina, Bolivia, Costa Rica, Cuba, Japan, Peru and Venezuela. The initial list of high priority veterinary drugs was updated to include additional veterinary drugs presented in the country comments and can be found in Appendix 1. Then, the EWG members were requested to suggest "criteria" that could be used to arrive at the list of high priority veterinary drugs that need MRLs.

4. In the second round of comments, EWG members were asked to comment on the complete list of suggested "criteria". In the interest of transparency, the second round of comments included all suggested criteria from EWG members and can be found in Appendix 2. Comments were received from Argentina, Brazil, Chile, Costa Rica, Japan, Panama, Peru, and Thailand. Several members commented that there was significant overlap among some of the criteria and suggested that the many criteria could be grouped together. Some EWG members also suggested that the criteria may vary in priority and should be applied differently. Based on the comments received, the Co-Chairs grouped similar criteria and proposed a step-wise process for narrowing the starting list of high priority veterinary drugs.

5. In the third round of comments, the EWG members were asked to apply the criteria to the list of high priority veterinary drugs. EWG members were asked to respond with a "yes" or "no" to indicate whether the specific veterinary drug met each criterion included in Appendix 3. The criteria for prioritization are presented in Table 1 below. Some of the questions provided had been answered by the Co-Chairs based on publicly available information such as Codex MRLs, JECFA reports, EU published MRLs and FDA published tolerances. Other questions required input from EWG members to determine if the criteria were met. Comments were received from Argentina, Brazil, Costa Rica, Cuba, Japan, Peru, Thailand, and Uganda.

6. All country comments included responses to many of the criteria for each veterinary drug in the Starting List. Many countries also identified the top ten veterinary drugs based on their own responses to the criteria. The Co-Chair performed two different analyses of the country responses. Each analysis resulted in a different top ten list, but both are presented for discussion.

Table 1. Prioritization for application of criteria to the starting list of high priority veterinary drugs in need of Codex MRLs.

Criteria	Priority
<u>Must meet both high priority criteria to remain in the starting list.</u>	
<i>There are no Codex MRLs for the veterinary drug in the requested species and tissues</i>	High
<i>There is a specific human health concern or trade implication associated with this veterinary drug</i>	High
<u>Must meet at least one of the moderate priority criteria to remain in the starting list.</u>	
<i>This veterinary drug is widely used in animal drug production systems</i>	Moderate
<i>This is the only veterinary drug for a particular purpose or disease</i>	Moderate
<i>This veterinary drug is for a species with few Codex MRLs available</i>	Moderate
<u>Low priority criteria for consideration in narrowing the starting list to ten.</u>	
<i>This veterinary drug does not have EMA MRLs or FDA tolerances</i>	Low
<i>This veterinary drug has a JECFA or JMPR toxicological evaluation</i>	Low
<i>This veterinary drug has Codex MRLs in other species or tissues</i>	Low

7. The countries provided comments for the third round on Appendix 3 and their respective application of the decision tree and compliance with the “high priority criteria,” and many determined the ten priority veterinary drugs in need of MRLs for their country. In the first analysis, the veterinary drugs identified by each participating country were compared in a comprehensive manner to arrive at a single list based on the country lists. List A considers the veterinary drugs of greater coincidence or similarity between the responses of the six countries’ high priority lists. Appendix 4a shows the comparison of responding countries’ top ten lists.

Table 2: List A: Top ten highest priority veterinary drugs in need of MRLs determined by analysis of individual country prioritizations.

LIST A		
N.	Veterinary drug	Number of Countries that agree on the priority of the veterinary drug
1	Enrofloxacin	6
2	Amitraz	5
3	Cloxacilin	4
4	Florphenicol	4
5	Fosfomicin	4
6	Toltrazuril	4
7	Tulatromicin	4
8	Ampicillin	3
9	Cefquinome	3
10	Trimetropim	3

8. In the second analysis, the responses from EWG members were compiled for each criterion to narrow the list to ten highest priority veterinary drugs. The starting list of veterinary drugs was prioritized in the following manner:

- A. A veterinary drug was eliminated from further prioritization if none of the country responses indicated both high priority criteria were met. Twelve veterinary drugs were eliminated from further prioritization for this reason.

- B. A veterinary drug was eliminated from further prioritization if none of the country responses indicated at least one moderate priority criterion was met. One veterinary drug was eliminated from further prioritization for this reason.
- C. The low priority criteria were considered when 30 products remained in the list after the high and moderate priority criteria were assessed. At this stage, veterinary drugs were prioritized based on the total number of criteria met. A veterinary drug meeting all 8 criteria was considered the highest priority.
- D. The proportion of responses for a given criterion was considered when many veterinary drugs had met the same number of criteria.

9. Six veterinary drugs met 7 or more criteria based on the cumulative country responses. An additional five veterinary drugs met 6 criteria based on the cumulative country responses, and were further analyzed to determine which one had the most responses from countries for inclusion in the top ten list. List B considers the veterinary drugs meeting the most criteria based on cumulative country responses found in Appendix 4b.

Table 3: List B: Top ten highest priority veterinary drugs in need of MRLs determined by analysis of cumulative country responses.

LIST B		
N.	Veterinary drug	Number of criteria met for the veterinary drug based on cumulative country responses
1	Diminazene	8
2	Amoxicilin, Thihidrat Amoxicilin	7
3	Dipropionate imidocarb	7
4	Gentamicin	7
5	Ivermectin	7
6	Oxitetracycline	7
7	Amitraz	6
8	Ethion	6
9	Fipronil	6
10	Fosfomicin	6

10. List A and List B have two veterinary drugs in common. Both lists represent priorities from responding countries, but were developed with two different approaches to analyzing country responses. The lists are presented for consideration by EWG members and by CCRVDF24.

11. In the fourth round, the EWG members were asked to consider the draft report of the EWG on Prioritization of Countries Needs for MRLs and comment on the two approaches to analyze country responses. Argentina, Brazil, Costa Rica, Peru and Uganda provided comments on the report and lists. Comments were received in support of both prioritization approaches, along with requests to ensure enrofloxacin would be included in the final top ten list.

RECOMMENDATIONS FROM THE CO-CHAIRS

12. Based on the comments received, the Co-Chairs would like to propose an in-session working group. An in-session working group would allow discussion of the prioritization approaches presented in this report. Such discussion could help to build consensus on a single top-ten list of veterinary drugs in need of Codex MRLs to be considered by the CCRVDF.

13. The EWG was also tasked with identifying data gaps for a successful and comprehensive assessment by JECFA. Once there is agreement on the approach and the top ten list to be used, the CCRVDF may consider additional work to identify existing data and data gaps preventing evaluation or re-evaluation of the highest priority veterinary drugs in need of Codex MRLs. At the same time, Members could then work together to fill information gaps that impede a JECFA evaluation.

Appendices:

Appendix 1: Starting list of high priority veterinary drugs in need of Codex MRLs

Appendix 2: Prioritization of High Priority Veterinary Drugs in need of Codex MRLs

Appendix 3: Application of criteria for Prioritization of high priority veterinary drugs that require Codex MRLs

Appendix 4a: Ranking of high priority veterinary drugs that require Codex MRLs based on comparison of responding countries' top ten priorities

Appendix 4b: Ranking of high priority veterinary drugs that require Codex MRLs based on analysis of cumulative country responses.

Appendix 1: Starting List of High Priority Veterinary Drugs in need of Codex MRLs (This is the starting list with the comments and corrections added for the countries)

N.	Origin/Country	Name (active ingredient)	Existing Codex MRLs (CCRVDF)	Food producing species in which this veterinary drug is used	Tissues	Purpose for which this veterinary drug is used in this species	Disease of concern	Evaluation JECFA	Comments	JMPR Evaluation	Codex MRL (CCPR)
1	Starting List	Albendazol, albendazol of sulfoxid (Ricobendazol), sulfon albendazol	Yes. Adoption in 1993 Not especificate	Swine, Horse, Goats and Poultry, Sudamerican camels	Muscle, Liver, Fat, Milk and Kidney.	Antiparasitic agent	Control and prevention of endoparasites	Latest evaluation in 1989			
2	Starting List	Abamectin	Yes. Adoption in 2003 for Cattle	Pig, Horse, Goats and Sheep.	Muscle, Liver, Fat, Milk and Kidney.	Antiparasitic agent	Control and prevention of parasites infections	Latest evaluation in 1989	Codex Alimentarius is only in Fat, Liver and Kidney of Cattle	Latest evaluation in 2015. AD of: 0–0.001 mg/kg bw was set. The ADI also applies to the 8,9-Z isomer and the 24-hydroxymethyl metabolite of abamectin.	Plant commodities only
3	Starting List	Amoxicilin, Thihidrat Amoxicilin	Yes. Adoption in 2012 for Cattle, Pig and Sheep	Fish, Goats and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Control of bacterial infections	Latest evaluation in 2011			
4	Starting List	Ampicilin Sodic Ampicilin, Trihidrat ampicillin	No	Cattle, Pig, Horse, Goats, Sheep, Fish and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Treatment of pneumonia and Control of bacterial infections.	No			
5	Starting List	Amitraz	No		Honey (Bees), Muscle, Liver, Fat, Milk and Kidney.	Ectoparasitic	Parasitosis, acariosis	No		Latest evaluation in 1998. ADI of 0.01 mg/kg bw was set.	Plant commodities Cattle*, Pig*, Sheep* *The MRL accommodates external animal treatment.

N.	Origin/Country	Name (active ingredient)	Existing Codex MRLs (CCRVDF)	Food producing species in which this veterinary drug is used	Tissues	Purpose for which this veterinary drug is used in this species	Disease of concern	Evaluation JECFA	Comments	JMPR Evaluation	Codex MRL (CCPR)
6	Starting List	Amprolium	No	Cattle, Pig, Goats, Sheep and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Control of coccidiosis	Prevention and control of coccidiosis,	No			
7	Starting List	Bacitracin, Bacitracin Zinc, Bacitracin metilen disilicato	No	Cattle, Pig, Rabbit, Goat, Sheep, Turkey and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Treatment of enteric and respiratory diseases	No			
8	Added by Appendix 2	Bencidamin	No	Cattle, horse and pig	N.I.	Antimicrobial agent	N.I		Veterinary Drug used and registered in the country		
9	Added by Appendix 2	Bromhexin	No	Poultry, Cattle and pig	N.I.	Antimicrobial agent			Veterinary Drug used and registered in the country		
10	Starting List	Cefalexin	No	Cattle, Pig, Horse, Goat, Sheep and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Antimastitic, Treatment of enteric and respiratory diseases	No			
11	Starting List	Cefquinoma	No	Cattle, Pig, Horse and Goat	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Control and treatment of bacterial infections.	No			
12	Starting List	Ceftiofur	Yes. Adoption in 1999 for Cattle and Pig	Horse, Sheep, Goat and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	Latest evaluation in 1997			
13	Added by Appendix 2	Ceftriaxone	No	Cattle	N.I.	Antimicrobial agent	Control of bacterial infections.		Veterinary drug register and use in the country		
14	Starting List	Cipermetrin and alfa-cipermetrin	Yes. Adoption in 2006 for Cattle and Sheep	Bees, Pig, Horse, Goat	Honey (Bees), Muscle, Liver, Fat, Milk and Kidney.	Ectoparasitic	Parasitosis, acariosis	Latest evaluation 2004		Latest evaluation in 2005. 0-0.02 mg/kg bw (2006) Group ADI for cypermethrins	Plant commodities mammals other than marine Poultry Milk

N.	Origin/Country	Name (active ingredient)	Existing Codex MRLs (CCRVDF)	Food producing species in which this veterinary drug is used	Tissues	Purpose for which this veterinary drug is used in this species	Disease of concern	Evaluation JECFA	Comments	JMPR Evaluation	Codex MRL (CCPR)
										, including alpha-cypermethrin and zeta-cypermethrin, was set.	
15	Starting List	Cloxacilin	No	Cattle, Pig, Horse, Goat, Sheep and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Treatment of enteric and respiratory diseases	No			
16	Starting List	Colistin	Yes. Adoption in 2008 for Goats, Rabbits, Sheep, Turkey, Poultry and Cattle	Pig and Horse	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Growrh promoter, Treatment of enteric infection	Latest evaluation in 2006			
17	Added by Appendix 2	Coumaphos	No	Cattle	Muscle, Liver, Fat, Milk and Kidney	Antiparasitic agent	Control and prevention of endo/ectoparasites infections	No	MRL by Australia		
18	Starting List	Diminazene	Yes. Adoption in 1997 for Cattle	Cattle, Sheep, and Goats	Muscle, Liver, Fat, Kidney, Milk	Trypanocide	Trypanosomosis	Latest evaluation in 1994			
19	Added by Appendix 2	Dipropionate imidocarb	No	Cattle and horse	N.I.	External antiparasitic agent	N.I.		Veterinary Drug used and registered in the country		
20	Added by Appendix 2	Enramicin	No	Poultry and pig	Muscle, peel+fat, liver, Kidney	Treatment for bacterial infections for gram - or gram +. Activity against <i>Clostridium Perfringens</i> .	Necrotic enteritis	No			

N.	Origin/Country	Name (active ingredient)	Existing Codex MRLs (CCRVDF)	Food producing species in which this veterinary drug is used	Tissues	Purpose for which this veterinary drug is used in this species	Disease of concern	Evaluation JECFA	Comments	JMPR Evaluation	Codex MRL (CCPR)
21	Starting List	Enrofloxacin	No	Cattle, Cuyes, Rabbit, Pig, Horse, Goat, Sheep, Duck, Goose and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	No			
22	Added by Appendix 2	Enrofloxacin	No	Shrimp	Tissue	Antimicrobial agent	Infections by bacterial genera as <i>Vibrio</i>		Veterinary drug register and use in the country		
23	Added by Appendix 2	Ethion	No	Cattle	N.I.	External antiparasitic agent	N.I		Veterinary Drug used and registered in the country		
24	Starting List	Fipronil	No	Bees, Cattle, Pig, Cuyes, Goat and Sheep	Honey (Bees), Muscle, Liver, Fat, Milk and Kidney.	Ectoparasitic	Control of ectoparasites	No		Latest evaluation in 2000. 0-0.0002 mg/kg bw Group ADI for fipronil and fipronil-desulfinyl was set.	Plant commodities Cattle Poultry Milk
25	Starting List	Florfenicol	No	Cattle, Cuyes, Rabbit, Pig, Horse, Goat, Sheep, Duck, Goose and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Treatment of enteric and respiratory diseases	No			
26	Added by Appendix 2	Florphenicol	No	Shrimp	Tissue	Antimicrobial agent	Infections by bacterial genera as <i>Vibrio</i>		Veterinary drug register and use in the country		
27	Added by Appendix 2	Flavofosfolipol	No	Poultry and Cattle	Muscle	Antimicrobial agent	Regulator of intestinal microflora.	No	Priority 3		
28	Starting List	Flumetrin	No	Bees and Cattle	Muscle, Liver, Fat, Milk and Kidney.	Ectoparasitic	Control of ectoparasites	No		Latest evaluation in 1996. ADI of 0.004 mg/kg bw was	Cattle Cattle milk *The MRL accommodate

N.	Origin/Country	Name (active ingredient)	Existing Codex MRLs (CCR/DF)	Food producing species in which this veterinary drug is used	Tissues	Purpose for which this veterinary drug is used in this species	Disease of concern	Evaluation JECFA	Comments	JMPR Evaluation	Codex MRL (CCPR)
										set. And nowadays is included in the priority list (REP17/RVDF, Appendix VI)	s external animal treatment.
29	Added by Appendix 2	Fosfomicin	No	Poultry and pig	Muscle	Antimicrobial agent	Treatment of enteric and respiratory diseases by <i>E. coli</i> , <i>Mycoplasma</i> , <i>Salmonella</i> and <i>Pasteurella</i>	No	Priority 2		
30	Added by Appendix 2	Fumagilin	No	Bees	Honey	Antimicrobial agent	Nosemosis	No	Because there are not MRL, it has authorization to use just in a time with not flow of honey. Priority 1		
31	Starting List	Gentamicin	Yes. Adoption in 2001 for Cattle and Pig	Rabbit, Horse, Goat, Sheep and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	Latest evaluation in 1998			
32	Starting List	Ivermectin	Yes. Adoption in 1993 for Sheep, Pig and 2017 for Cattle.	Horse, Goat, Camel and Poultry.	Muscle, Liver, Fat, Milk and Kidney.	Antiparasitic agent	Control and prevention of endo/ectoparasites infections	Latest evaluation in 2015			
33	Added by Appendix 2	Ivermectin	Yes. Adoption in 1993 for Sheep Pig and 2017 for Cattle.	Sheep and pig	Muscle, Liver, Fat, Milk and Kidney.	Antiparasitic agent	Control and prevention of endo/ectoparasites infections	Last evaluation 2015 in Cattle. Previous evaluation for Sheep in 2002.	Re-evaluation for Sheep and pig, considering a new ADA recommending by JECFA 2015		

N.	Origin/Country	Name (active ingredient)	Existing Codex MRLs (CCRVDF)	Food producing species in which this veterinary drug is used	Tissues	Purpose for which this veterinary drug is used in this species	Disease of concern	Evaluation JECFA	Comments	JMPR Evaluation	Codex MRL (CCPR)
34	Starting List	Isometamedium Chloride	Yes. Adoption in 1995 for Cattle	Cattle	Muscle, Liver, Fat, Milk and Kidney	Trypanocide	Trypanosomosis	Latest evaluation in 1992			
35	Added by Appendix 2	Metilparaben	No	Cattle	N.I.	External antiparasitic agent	N.I.		Veterinary Drug used and registered in the country		
36	Starting List	Oxitetracyclin	Yes. Adoption in 2003 for Cattle, Pig, Sheep. Oxitetracycline just for Fish and giant shrimp	Bees, Camel, Horse and Goat	Honey (Bees), Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Treatment of enteric and respiratory diseases	Latest evaluation in 1998	JECFA recommended this LMR about active ingredient combined or individual		
37	Added by Appendix 2	Pirrolidon	No	Cattle	N.I.	Antimicrobial agent	N.I.		Veterinary Drug used and registered in the country		
38	Added by Appendix 2	Propilparaben	No	Cattle	N.I.	External antiparasitic agent	N.I.		Veterinary Drug used and registered in the country		
39	Added by Appendix 2	Proporxur	No	Cattle and pig	Muscle, Liver, Fat, Milk and Kidney	Antiparasitic agent	Control and prevention of endo/ectoparasites infections	No	MRL by Japan		
40	Starting List	Tiamulin	No	Cattle, Pig, Horse, Goat, Sheep, Turkey and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Treatment of enteric and respiratory diseases	No			
41	Starting List	Toltrazuril	No	Cattle, Camel, Pig, Rabbit, Goose, Goat, Poultry and Sheep	Muscle, Liver, Fat, Milk and Kidney.	Control of coccidiosis	Prevention and control of coccidiosis	No	http://www.ema.europa.eu/docs/en_GB/document_library/Maximum_Residue_Limits_-_Report/2009/11		

N.	Origin/Country	Name (active ingredient)	Existing Codex MRLs (CCR/VD)	Food producing species in which this veterinary drug is used	Tissues	Purpose for which this veterinary drug is used in this species	Disease of concern	Evaluation JECFA	Comments	JMPR Evaluation	Codex MRL (CCPR)
									/WC500015632.pdf		
42	Starting List	Trimetropin	No	Cattle, Rabbit, Camel, Pig, Horse, Goat and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Treatment of enteric and respiratory diseases	No	http://www.ema.europa.eu/docs/en_GB/document_library/Maximum_Residue_Limits_-_Report/2009/11/WC500015681.pdf		
43	Starting List	Tulatromicin	No	Cattle, Pig, Goat, Sheep, and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	No			
44	Added by Appendix 2	Tilvalosin	No	Pig, poultry, turkey y pheasants	Muscle and eggs	Antimicrobial agent	Treatment of enteric and respiratory diseases	No			

N.I.: Not indicated

Appendix 2 Prioritization of High Priority Veterinary Drugs in need of Codex MRLs (this is the criterial list purpose for the participant countries in this first round of comments)

N.	Selection of Criterial	Criterial description	Justification
1	Conserve or maintain in the starting list	Include or maintain active ingredient of importance for a country /region for which there are not MRLs Codex as an international reference, or regional or national agencies such as EMA or FDA, whose MRLs and tolerances are internationally accepted by developing countries as quoted the RTCA.	The lack of international reference of MRLs is the main problem facing developing countries in conducting a risk analysis for the establishment of national MRLs and withdrawal periods for veterinary drugs.
2	Conserve or maintain in the starting list	Veterinary Drugs without MRL from CODEX. (Codex scope). Interest in evaluating widely used products without an MRL CODEX	MRL JECFA evaluation, for countries that do not carry out this evaluation
3	Conserve or maintain in the starting list	Maintain veterinary drugs Widely used in animal production systems. Interest in evaluating widely used products without an MRL CODEX	Veterinary drugs with greater use, greater need for definition
4	Conserve or maintain in the starting list	Maintain veterinary drugs, which are the only product available for a particular purpose, specific products for a specific disease.	They are of Critical use and therefore it is relevant to have a JECFA evaluation
5	Conserve or maintain in the starting list	Only for antibiotics and their relationship with Antimicrobial resistance and human use	It is advisable to apply Criterial used by OIE to define criticality of a drug according to document "LIST OF IMPORTANT ANTIMICROBIAL AGENTS FOR VETERINARY MEDICINE"
6	Conserve or maintain in the starting list	Veterinary drugs for species that do not have alternatives, since there are no MRLs. There are species for which there are very few drugs with defined MRLs, as is the case with bees.	It necessary to evaluate this production and the residues of drugs in matrix Honey. Currently CODEX does not have MRLs for this matrix and international honey trade has increased over time
7	Elimination from the starting list	Exclude veterinary drugs, which that already have MRLs from the JMPR.	The veterinary drug has Codex MRLs from JMPR, which can be used as a reference.
8	Elimination from the starting list	Exclude veterinary drugs that have FDA and EMEA MRLs	Our country has Central American regulation to establish the order of adoption of MRLs, which in addition to Codex Alimentarius also includes agencies such as FDA and EMEA.
9	Conserve or maintain in the starting list	Maintain veterinary drugs that already have an initial evaluation for some species.	This would be a starting point for JECFA and scientific sponsors for research on other non-traditional species.
10	Conserve or maintain in the starting list (Putting in a high priority)	A substance, which has already been toxicologically evaluated by JECFA or JMPR.	It seems to be easy to evaluate these compounds.

N.	Selection of Criterial	Criterial description	Justification
11	Conserve or maintain in the starting list (Putting in a high priority)	A substance, which is being, used as veterinary drug for certain food producing animals in several countries, and Codex MRLs in such animal tissues do not exist.	It is meaningful to set MRLs for these compounds to improve food safety and fair practice in food trade.
12	Conserve or maintain in the starting list (Putting in a high priority)	A substance whose health concern and/or food trade implication are identify.	It is meaningful to set MRLs for these compounds to improve food safety and fair practice in food trade.
13	Conserve or maintain in the starting list	Veterinary drugs that have initial evaluation by JECFA in one or more species	The initial assessment would serve as a starting point for JECFA to expand to other species in which it is used.
14	Conserve or maintain in the starting list	Veterinary drugs which has Codex MRLs on specific tissues of one or more matrices	The initial evaluation will serve as a starting point for JECFA to expand the research and establish the MRL for other tissues of interest in species in which it is used.
15	Elimination from the starting list	Veterinary medicinal products that have Codex MRLs in different tissues and species in which they are used	There is no need to update the Codex MRL or further research by JECFA.
16	Conserve or maintain in the starting list	Maintain Veterinary drugs without an MRLs by Codex	MRL JECFA evaluation, for countries that do not carry out this evaluation
17	Conserve or maintain in the starting list	Active principle of importance as a country for which there are no internationally agreed CODEX MRLs	The lack of information on MRLs is one of the major problems in our regions when evaluating a risk analysis.

Appendix 4: Application of Criteria to Starting List of High Priority Veterinary Drugs in need of Codex MRLs

<u>Starting List of High Priority Veterinary Drugs in Need of Codex MRLs</u>											<u>Must meet both high priority criteria to remain in the list</u>		<u>Must meet at least one of the moderate priority criteria to remain in the list</u>			<u>Low priority criteria for consideration in narrowing the list to ten.</u>			
N	Origin/Country	Name (active ingredient)	Existing Codex MRLs (CCRVDF)	Food producing species in which this veterinary drug is used	Tissues	Purpose for which this veterinary drug is used in this species	Disease of concern	Evaluation JECFA	Comments	JMPR Evaluation	Codex MRL (CCPR)	There are no Codex MRLs for the veterinary drug in the requested species and tissues. (If there are existing MRLs, please indicate which species or tissues for which you need MRLs)	There is a specific human health concern or trade implications associated with this veterinary drug.	This veterinary drug is widely used in animal production systems.	This is the only veterinary drug for a particular purpose or disease. (If yes, please indicate purpose/disease.)	This veterinary drug is for a species with few Codex MRLs. (If yes, please specify species of interest.)	This veterinary drug does not have EMA MRLs or FDA tolerances.	This veterinary drug has a JECFA or JMPR toxicological evaluation.	This veterinary drug has Codex MRLs in other species or tissues.
1	Starting List	Albendazole, albendazole of sulfoxid (Rico bendazol), sulfon albendazole	Yes. Adoption in 1993 Not especificate	Swine, Horse, Goats and Poultry, Sudamerican camels	Muscle, Liver, Fat, Milk and Kidney.	Antiparasitic agent	Control and prevention of endoparasites	Latest evaluation in 1989										Yes, JECFA	Yes
2	Starting List	Abamectin	Yes. Adoption in 2003 for Cattle	Pig, Horse, Goats and Sheep.	Muscle, Liver, Fat, Milk and Kidney.	Antiparasitic agent	Control and prevention of parasites infections	Latest evaluation in 1989	Codex Alimentarius is only in Fat, Liver and	Latest evaluation in 2015. AD of: 0-0.001	Plant commodities only							Yes, JECFA	Yes

7	Starting List	Bacitracin, Bacitracin Zinc, Bacitracin metilendisilicato	No	Cattle, Pig, Rabbit, Goat, Sheep, Turkey and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Treatment of enteric and respiratory diseases	No				Yes, No Codex MRLs in any species					No	No
8	Added by Appendix 2	Bencidamin	No	Cattle, horse and pig	N.I.	Antimicrobial agent	N.I.		Veterinary Drug used and registered in the country			Yes, No Codex MRLs in any species					No	No
9	Added by Appendix 2	Bromhexin	No	Poultry, Cattle and pig	N.I.	Antimicrobial agent			Veterinary Drug used and registered in the country			Yes, No Codex MRLs in any species					No	No
10	Starting List	Cefalexin	No	Cattle, Pig, Horse, Goat, Sheep and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Antimastitic, Treatment of enteric and respiratory diseases	No				Yes, No Codex MRLs in any species					No	No
11	Starting List	Cefquinoma	No	Cattle, Pig, Horse and Goat	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Control and treatment of bacterial infections.	No				Yes, No Codex MRLs in any species					No	No
12	Starting List	Ceftiofur	Yes. Adoption in 1999 for Cattle and Pig	Horse, Sheep, Goat and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	Latest evaluation in 1997									Yes, JECFA	Yes
13	Added by Appendix 2	Ceftriaxone	No	Cattle	N.I.	Antimicrobial agent	Control of bacterial infections.		Veterinary drug register and use in the country			Yes, No Codex MRLs in any species					No	No
14	Starting List	Cipermetrin and alfa-cipermetrin	Yes. Adoption in 2006 for Cattle and Sheep	Bees, Pig, Horse, Goat	Honey (Bees), Muscle, Liver, Fat, Milk	Ectoparasitic	Parasitosis, acariosis	Latest evaluation 2004		Latest evaluation in 2005. 0-0.02 mg/kg bw	Plant commodities mammals other than marine						Yes, JECFA and JMPR	Yes

					and Kidney.					(2006) Group ADI for cypermethrins, including alpha-cypermethrin and zeta-cypermethrin, was set.	Poultry Milk								
15	Starting List	Cloxacilin	No	Cattle, Pig, Horse, Goat, Sheep and Poultry	Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Treatment of enteric and respiratory diseases	No				Yes, No Codex MRLs in any species						No	
16	Starting List	Colistin	Yes. Adoption in 2008 for Goats, Rabbits, Sheep, Turkey, Poultry and Cattle	Pig and Horse	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Growth promoter, Treatment of enteric infection	Latest evaluation in 2006										Yes, JECFA	Yes
17	Added by Appendix 2	Coumaphos	No	Cattle	Muscle, Liver, Fat, Milk and Kidney	Antiparasitic agent	Control and prevention of endo/ectoparasites infections	No	MRL by Australia			Yes, No Codex MRLs in any species						No	
18	Starting List	Diminazene	Yes. Adoption in 1997 for Cattle	Cattle, Sheep, and Goats	Muscle, Liver, Fat, Kidney, Milk	Trypanocide	Trypanosomiasis	Latest evaluation in 1994										Yes, JECFA	Yes
19	Added by Appendix 2	Dipropionate imidocarb	No	Cattle and horse	N.I.	External antiparasitic agent	N.I.		Veterinary Drug used and registered in the country			Yes, No Codex MRLs in any species						No	
20	Added by Appendix 2	Enramicin	No	Poultry and pig	Muscle, peel+fat	Treatment for bacteria	Necrotic enteritis	No				Yes, No Codex MRLs						No	

					, liver, Kidney	I infections for gram - or gram +. Activity against <i>Clostridium perfringens</i> .						in any species							
21	Starting List	Enrofloxacin	No	Cattle, Rabbit, Pig, Horse, Goat, Sheep, Duck, Goose and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	No				Yes, No Codex MRLs in any species						No	
22	Added by Appendix 2	Enrofloxacin	No	Shrimp	Tissue	Antimicrobial agent	Infections by bacterial genus such as <i>Vibrio</i>		Veterinary drug registered and used in the country			Yes, No Codex MRLs in any species						No	
23	Added by Appendix 2	Ethion	No	Cattle	N.I.	External antiparasitic agent	N.I.		Veterinary Drug used and registered in the country			Yes, No Codex MRLs in any species						No	
24	Starting List	Fipronil	No	Bees, Cattle, Pig, Rabbit, Goat and Sheep	Honey (Bees), Muscle, Liver, Fat, Milk and Kidney.	Ectoparasitic	Control of ectoparasites	No		Latest evaluation in 2000. 0-0.0002 mg/kg bw Group ADI for fipronil and fipronil-desulfinyl was set.	Plant commodities Cattle Poultry Milk	Yes, No Codex MRLs in any species						Yes, JMPR	
25	Starting List /Added by	Florfenicol	No	Cattle, Rabbit, Pig,	Muscle, Liver, Fat,	Antimicrobial agent	Treatment of enteric and	No	Veterinary drug register			Yes, No Codex MRLs						No	

									of honey. Priority 1										
30	Starting List	Gentamicin	Yes. Adoption in 2001 for Cattle and Pig	Rabbit, Horse, Goat, Sheep and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	Latest evaluation in 1998										Yes, JECFA	Yes
31	Starting List	Ivermectin	Yes. Adoption in 1993 for Sheep Pig and 2017 for Cattle.	Horse, Goat, Camel and Poultry.	Muscle, Liver, Fat, Milk and Kidney.	Antiparasitic agent	Control and prevention of endo/ecto parasites infections	Latest evaluation in 2015										Yes, JECFA	Yes
32	Added by Appendix 2	Ivermectin	Yes. Adoption in 1993 for Sheep Pig and 2017 for Cattle	Sheep and pig	Muscle, Liver, Fat, Milk and Kidney.	Antiparasitic agent	Control and prevention of endo/ecto parasites infections	Last evaluation 2015 in Cattle. Previous evaluation for Sheep in 2002.	Re-evaluation for Sheep and pig, considering a new ADA recommending by JECFA 2015									Yes, JECFA	Yes
33	Starting List	Isometamidium Chloride	Yes. Adoption in 1995 for Cattle	Cattle	Muscle, Liver, Fat, Milk and Kidney	Trypanocide	Trypanosomiasis	Latest evaluation in 1992										Yes, JECFA	Yes
34	Added by Appendix 2	Metilparaben	No	Cattle	N.I.	External antiparasitic agent	N.I.		Veterinary Drug used and registered in the country									No	
35	Starting List	Oxitetracycline	Yes. Adoption in 2003 for Cattle, Pig, Sheep. Oxitetracycline just for Fish	Bees, Camel, Horse and Goat	Honey (Bees), Muscle, Liver, Fat, Milk and Kidney.	Antimicrobial agent	Treatment of enteric and respiratory diseases	Latest evaluation in 1998	JECFA recommended this LMR about active ingredient combined or individual									Yes, JECFA	Yes

Appendix 4a: Analysis of the list with veterinary drugs prioritized by greater to less agreement regarding the responses of the countries to get the List A

Priority	Veterinary drugs in order for agreement countries	Number of countries agreement with the veterinary drug
High (in countries agreement order)	Enrofloxacin	6
	Amitraz	5
	Cloxacilin	4
	Florphenicol	4
	Fosfomicin	4
	Toltrazuril	4
	Tulatromicin	4
	Ampicillin	3
	Cefquinome	3
	Trimetroprim	3
Medium (in countries agreement order)	Amoxicillin	2
	Amprolium	2
	Fipronil	2
	Flumetrin	2
	Tiamulin	2
	Tilvalusin	2
	Bacitracin	1
	Bromhexin	1
	Cefalexin	1
	Ceftiofur	1
	Coumaphos	1
	Diminazene	1
	Ethion	1
	Gentamicin	1
	Isometamedium chloride	1
	Ivermectin	1
	Oxytetracycline	1
Proporxur	1	

Appendix 4b: Analysis of Cumulative Country Responses on Prioritization of Starting List of High Priority Veterinary Drugs in need of Codex MRLs to get the List B

N	Starting List of High Priority Veterinary Drugs in Need of Codex MRLs											Must meet both high priority criteria to remain in the list		Must meet at least one of the moderate priority criteria to remain in the list			Low priority criteria for consideration in narrowing the list to ten			Analysis of Cumulative Responses		
	Origin/Country	Veterinary Drug Name (active ingredient)	Existing Codex MRLs (CCRVDF)	Food producing species in which this veterinary drug is used	Tissues	Purpose for which this veterinary drug is used in this species	Disease of concern	Evaluation JECFA	Comments	JMPR Evaluation	Codex MRL (CCPR)	There are no Codex MRLs for the veterinary drug in the requested species and tissues. (If there are existing MRLs, please indicate which species or tissues for which you need MRLs)	There is a specific human health concern or trade implications associated with this veterinary drug.	This veterinary drug is widely used in animal production systems.	This is the only veterinary drug for a particular purpose or disease. (If yes, please indicate purpose/disease)	This veterinary drug is for a species with few Codex MRLs. (If yes, please specify species of interest.	This veterinary drug does not have EMA MRLs or FDA tolerances.	This veterinary drug has a JECFA or JMPR toxicological evaluation.	This veterinary drug has Codex MRLs in other species or tissues.	Total criteria met per category with number of country responses indicated.	Total Criteria Met	Ten Highest Priority Veterinary Drugs
1	Starting List	Albendazole, albendazole of sulfoxid (Rico bendazol), sulfon albendazole	Yes. Adopted in 1993 Not specific	Swine, Horse, Goats and Poultry, Sudanese camels	Muscle, Liver, Fat, Milk and Kidney	Antiparasitic agent	Control and prevention of endoparasites	Latest evaluation in 1989					2 countries		2 countries: south american camels, equines	FDA (goat and sheep); EMA (all ruminants)	Yes, JECFA	Yes	High:0	0		
2	Starting List	Abamectin	Yes. Adopted in 2003 for Cattle	Pig, Horse, Goats and Sheep.	Muscle, Liver, Fat, Milk and Kidney	Antiparasitic agent	Control and prevention of parasites infections	Latest evaluation in 1989		Codex Alimentarius is only in Fat, Liver and Kidney of Cattle	Latest evaluation in 2015. AD of: 0-0.001 mg/kg bw	Plant commodities only	1 country		2 countries: goats, equines	EMA (cattle and swine)	Yes, JECFA	Yes	High:0	0		

										was set. The ADI also applies to the 8,9-Z isomer and the 24-hydroxymethyl metabolite of abamectin.												
3	Starting List	Amoxicillin, Thihidrat Amoxicillin	Yes. Adoption in 2012 for Cattle, Pig and Sheep	Fish, Goats and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Control of bacterial infections	Latest evaluation in 2011				1 country	2 countries	4 countries	1 country	2 countries: goats, poultry	FDA & EMA (all food species)	Yes, JECFA	Yes	High: 2 (2 countries) Moderate: 3 (4;1;2 countries) Low: 2	7	2
4	Starting List	Ampicillin Sodic Ampicillin, Trihidrat ampicillin	No	Cattle, Pig, Horse, Goats, Sheep, Fish and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of pneumonia and Control of bacterial infections.	No				Yes, No Codex MRLs in any species	3 countries	4 countries		2 countries: south american camels, sheep, goat, swine	EMA	No	No	High: 2 (3 countries) Moderate: 2 (4;2 countries) Low: 0	4	
5	Starting List	Amitraz	No		Honey (Bees), Muscle, Liver, Fat, Milk and Kidney	Ectoparasitic	Parasitosis, acariosis	No		Latest evaluation in 1998. ADI of 0.01 mg/kg bw was set.	Plant commodities Cattle*, Pig*, Sheep* *The MRL accommodates external animal treatment.	Yes, No Codex MRLs in any species	5 countries	5 countries	1 country	4 countries: honey bees, goats	EMA	Yes, JMPR	No	High: 2 (5 countries) Moderate: 3 (5;1;4 countries) Low: 1	6	7

6	Starting List	Amprolium	No	Cattle, Pig, Goats, Sheep and Poultry	Muscle, Liver, Fat, Milk and Kidney	Control of coccidiosis	Prevention and control of coccidiosis,	No			Yes, No Codex MRLs in any species	1 country	4 countries	1 country	3 countries: birds, goats, sheep	EMA	No	No	High: 2 (1 country) Moderate: 3 (5;1;4 countries) Low: 0	5	
7	Starting List	Bacitracin, Bacitracin Zinc, Bacitracin metilendisilicato	No	Cattle, Pig, Rabbit, Goat, Sheep, Turkey and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	No			Yes, No Codex MRLs in any species	2 countries	5 countries			None	No	No	High: 2 (2 countries) Moderate: 1 (5 countries) Low: 1	4	
8	Added by Appendix 2	Bencidamin	No	Cattle, horse and pig	N.I.	Antimicrobial agent	N.I.		Veterinary Drug used and registered in the country		Yes, No Codex MRLs in any species		1 country			None	No	No	High: 1	1	
9	Added by Appendix 2	Bromhexin	No	Poultry, Cattle and pig	N.I.	Antimicrobial agent			Veterinary Drug used and registered in the country		Yes, No Codex MRLs in any species	1 country	1 country			None	No	No	High: 2 (1 country) Moderate: 1 (1 country) Low: 1	4	
10	Starting List	Cefalexin	No	Cattle, Pig, Horse, Goat, Sheep and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Antimastitic, Treatment of enteric and respiratory diseases	No			Yes, No Codex MRLs in any species	1 country	3 countries		1 country: equine, goats, sheep, poultry	None	No	No	High: 2 (1 country) Moderate: 2 (3; 1 countries) Low: 1	5	
11	Starting List	Cefquinoma	No	Cattle, Pig, Horse and Goat	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Control and treatment of bacterial infections.	No			Yes, No Codex MRLs in any species	3 countries	2 countries			None	No	No	High: 2 (3 countries) Moderate: 1 (2)	4	

			Goats, Rabbits, Sheep, Turkey, Poultry and Cattle		and Kidney		enteric infection												Moderate: 1 (3 countries) Low: 2			
17	Added by Appendix 2	Coumaphos	No	Cattle	Muscle, Liver, Fat, Milk and Kidney	Antiparasitic agent	Control and prevention of endo/ectoparasite infections	No	MRL by Australia			Yes, No Codex MRLs in any species	2 countries	2 countries			None	No		High: 2 (2 countries) Moderate: 1 (2 countries) Low: 1	4	
18	Starting List	Diminazene	Yes. Adoption in 1997 for Cattle	Cattle, Sheep, and Goats	Muscle, Liver, Fat, Kidney, Milk	Trypanocide	Trypanosomiasis	Latest evaluation in 1994				1 country: goat and sheep tissues and milk	1 country	2 countries	1 country	1 country: goats, sheep	None	Yes, JECFA	Yes	High: 2 (1 country) Moderate: 3 (2; 1; 1 countries) Low: 3	8	1
19	Added by Appendix 2	Dipropionate imidocarb	No	Cattle and horse	N.I.	External antiparasitic agent	N.I.		Veterinary Drug used and registered in the country			Codex MRLs exist in cattle	1 country	1 country	1 country		None	Yes, JECFA	Yes	High: 2 (1 country) Moderate: 2 (1; 1 countries) Low: 3	7	3
20	Added by Appendix 2	Enramicin	No	Poultry and pig	Muscle, peel+fat, liver, Kidney	Treatment for bacterial infections for gram - or gram +. Activity against <i>Clostridium perfringens</i> .	Necrotic enteritis	No				Yes, No Codex MRLs in any species		2 countries			None	No		High: 1		

21	Starting List	Enrofloxacin	No	Cattle, Rabbit, Pig, Horse, Goat, Sheep, Duck, Goose and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	No			Yes, No Codex MRLs in any species	6 countries	7 countries	1 country	2 countries: equine poultry, shrimp	EMA	No		High: 2 (6 countries) Moderate: 3 (7; 1; 2 countries) Low: 0	5	
22	Added by Appendix 2	Enrofloxacin	No	Shrimp	Tissue	Antimicrobial agent	Infections by bacterial genus such as <i>Vibrio</i>		Veterinary drug registered and used in the country		Yes, No Codex MRLs in any species	2 countries	3 countries	1 country	2 countries: white shrimp	EMA	No		High: 2 (2 countries) Moderate: 3 (3; 1; 2 countries) Low: 0	5	
23	Added by Appendix 2	Ethion	No	Cattle	N.I.	External antiparasitic agent	N.I.		Veterinary Drug used and registered in the country		Yes, No Codex MRLs in any species	2 countries	3 countries	1 country		None	Yes, JMPR		High: 2 (2 countries) Moderate: 2 (3; 1 countries) Low: 2	6	8
24	Starting List	Fipronil	No	Bees, Cattle, Pig, Rabbit, Goat and Sheep	Honey (Bees), Muscle, Liver, Fat, Milk and Kidney	Ectoparasitic	Control of ectoparasites	No		Latest evaluation in 2000. 0-0.0002 mg/kg bw Group ADI for fipronil and fipronil-desulfenyl was set.	Yes, No Codex MRLs in any species	3 countries	3 countries		1 country: bees, goats, sheep	None	Yes, JMPR		High: 2 (3 countries) Moderate: 2 (3; 1 countries) Low: 2	6	9
25	Starting List /Added by Appendix 2	Florfenicol	No	Cattle, Rabbit, Pig, Horse, Goat, Sheep, Duck, Goose	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	No	Veterinary drug registered and used in the country		Yes, No Codex MRLs in any species	4 countries	5 countries		1 country: equine, goats, sheep, poultry	None	No		High: 2 (4 countries) Moderate: 2 (5; 1;) Low: 0	5	

									flow of honey. Priority 1													
30	Starting List	Gentamicin	Yes. Adopted in 2001 for Cattle and Pig	Rabbit, Horse, Goat, Sheep and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	Latest evaluation in 1998				2 countries	3 countries	4 countries	1 country	2 countries: birds, camels	EMA, FDA	Yes, JECFA	Yes	High: 2 (3 countries) Moderate: 3 (4; 1; 2 countries) Low: 2	7	4
31	Starting List	Ivermectin	Yes. Adopted in 1993 for Cattle, Sheep and Pig	Horse, Goat, Camel and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antiparasitic agent	Control and prevention of endo/ectoparasite infections	Latest evaluation in 2015	The actual adoption of JECFA recommendation is			1 country	2 countries	4 countries	1 country	2 countries: birds, camels	EMA, FDA	Yes, JECFA	Yes	High: 2 (2 countries) Moderate: 3 (4; 1; 2 countries) Low: 2	7	5
32	Added by Appendix 2	Ivermectin	Yes. Adopted in 1993 for sheep and pig and 2017 for Cattle	Sheep and pig	Muscle, Liver, Fat, Milk and Kidney	Antiparasitic agent	Control and prevention of endo/ectoparasite infections	Last evaluation 2015 in Cattle. Previous evaluation for Sheep in 2002.	Re-evaluation for Sheep and pig, considering a new ADA recommendation by JECFA 2015					3 countries	1 country: birds, camels	Canada	Yes, JECFA	Yes	High: 0 Low: 0	0		
33	Starting List	Isometamidium Chloride	Yes. Adopted in 1995 for Cattle	Cattle	Muscle, Liver, Fat, Milk and Kidney	Trypanocide	Trypanosomiasis	Latest evaluation in 1992				1 country: goat and sheep tissues and milk	1 country	1 country				Yes, JECFA	Yes	High: 1 (1 country) Moderate: 1 (1 country) Low: 2	5	
34	Added by Appendix 2	Metilparaben	No	Cattle	N.I.	External antiparasitic agent	N.I.		Veterinary Drug used and registered in the country			Yes, No Codex MRLs in any species					No		High: 1 Low: 1	1		

35	Starting List	Oxitetracyclin	Yes. Adopted in 2003 for Cattle, Pig, Sheep. Oxitetracycline just for Fish and giant shrimp	Bees, Camel, Horse and Goat	Honey (Bees), Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	Latest evaluation in 1998	JECFA recommended this LMR about active ingredient combined or individual			2 countries	3 countries	3 countries	1 country	3 countries: bees, honey bees	EMA	Yes, JECFA	Yes	High: 2 (3 countries) Moderate: 3 (3; 1; 3 countries) Low: 2	7	6
36	Added by Appendix 2	Pirrolidone	No	Cattle	N.I.	Antimicrobial agent	N.I.		Veterinary Drug used and registered in the country			Yes, No Codex MRLs in any species						No		High: 1	1	
37	Added by Appendix 2	Propilpraben	No	Cattle	N.I.	External antiparasitic agent	N.I.		Veterinary Drug used and registered in the country			Yes, No Codex MRLs in any species					None	No		High: 1	1	
38	Added by Appendix 2	Propoxur	No	Cattle and pig	Muscle, Liver, Fat, Milk and Kidney	Antiparasitic agent	Control and prevention of endo/ectoparasite infections	No	MRL by Japan			Yes, No Codex MRLs in any species	2 countries	2 countries			None	No		High: 2 (2 countries) Moderate: 1 (2 countries) Low: 1	4	
39	Starting List	Tiamulin	No	Cattle, Pig, Horse, Goat, Sheep, Turkey and Poultry	Muscle, Liver, Fat, Milk and Kidney	Antimicrobial agent	Treatment of enteric and respiratory diseases	No				Yes, No Codex MRLs in any species	3 countries	5 countries	1 country	2 countries: poultry	EMA	No		High: 2 (3 countries) Moderate: 3 (5; 1; 2 countries) Low: 0	5	
40	Starting List	Toltrazuril	No	Cattle, Camel, Pig, Rabbit, Goose, Goat, Poultry	Muscle, Liver, Fat, Milk and Kidney	Control of coccidiosis	Prevention and control of coccidiosis	No	http://www.ema.europa.eu/docs/en_GB/document_library/Ma_ximum_			Yes, No Codex MRLs in any species	2 countries	6 countries	1 country	3 countries: birds, poultry	EMA	No		High: 2 (2 countries) Moderate: 3 (6; 1; 3	5	

