



Food and Agriculture  
Organization of the  
United Nations



World Health  
Organization

**JOINT FAO/WHO EXPERT COMMITTEE ON FOOD ADDITIVES**  
**Ninety-fourth meeting**

**Veterinary Drug Residues in Food**

**Remote, 16 – 27 May 2022**

Published 1 September 2021

**LIST OF SUBSTANCES SCHEDULED FOR EVALUATION  
AND REQUEST FOR DATA**

Attached is the list of substances (Annex 1) scheduled for evaluation or re-evaluation at the Ninety-fourth meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA). This list has been prepared by the Joint FAO/WHO Secretariat of the Committee and is based on recommendations of the Codex Committee on Residues of Veterinary Drugs in Foods (CCRVDF) and previous provisional decisions of JECFA.

***Submission of data***

Annex 1 lists the veterinary drugs to be considered at the meeting. Governments, interested organizations, producers of these compounds, and individuals are invited to submit data for the toxicological evaluations, for the residue evaluations and for estimating the intake of the chemicals that are listed. The submitted data may be published or unpublished and should contain detailed reports of laboratory studies, including individual animal data. Reference to relevant published studies should also be provided, where applicable. Summaries in the form of monographs are helpful, but they are not in themselves sufficient for evaluation.

Unpublished confidential studies that are submitted will be safeguarded and will be used only for evaluation purposes by JECFA. Summaries of the studies will be published by FAO and WHO after the meetings in the form of residue and toxicological monographs.

FAO and WHO have only limited data storage capacity. The submitted data can either be returned to submitters at their expense or destroyed after the evaluations have been completed. Please indicate the preferred procedure for data disposal at the time of submission. Key material can be stored up to five years and will then be destroyed. For substances that are being re-evaluated, the FAO and WHO Secretariats of JECFA encourage the sponsor to contact them before submission of data to determine whether documents and data reviewed at previous meetings of the Committee should be re-submitted.

The secretariats of JECFA at FAO and WHO encourage submission of data in electronic format. Such data should be presented preferably using standard word processing or document formats and need to include a "Table of contents" using fully descriptive file names. For large volume submissions or for any questions related to data submissions please contact the Secretariat.

**Date for submission**

The submission of data on those compounds listed in Annex 1 is requested before

**31 December 2021**

**Toxicological data**

Data relevant to the toxicological evaluations of the substances on the agenda include the results of studies on:

1. Biochemical data: pharmacokinetic, metabolic, and pharmacodynamic studies in experimental and food-producing animals, and in humans when available, effects on enzymes and other biochemical parameters;
2. Toxicological studies: acute toxicity, short-term toxicity, long-term toxicity/carcinogenicity, reproductive toxicity and developmental toxicity studies in experimental animals and genotoxicity studies;
3. Studies providing relevant data on the exposure to the compound by humans, including studies of effects observed after occupational exposure and epidemiological data following use in humans;
4. Special studies designed to investigate specific effects of the compound, such as neurotoxicity, immune responses, mechanism of toxicity, or macromolecular binding;
5. Data, studies or reasoned argument to determine the toxicological relevance of metabolites and degradates<sup>a</sup>;
6. For compounds with antimicrobial activity, studies designed to evaluate the possibility that residues of the compound might have an adverse effect on the microbial ecology of the human intestinal tract;
7. Information on registration status and existing assessments of the compound.

This information needs to be submitted electronically to the following e-mail address: [jecfa@who.int](mailto:jecfa@who.int) or by sending it on a USB stick to:

Attention: Mr Soren Madsen  
Department of Food Safety and Zoonoses  
World Health Organization  
Avenue Appia  
1211 Geneva 27  
Switzerland  
Facsimile: +41 (0) 22 791 4807  
Telephone: +41 (0)22 791 3697  
E-mail: [jecfa@who.int](mailto:jecfa@who.int)

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<sup>a</sup> This should include within the toxicological dossier a summary table for the occurrence of parent compounds, metabolites and degradates in various crops and animals. Where metabolites may be formed by alternate pathways in test species, evidence should be provided for the extent of exposure to intermediate metabolite(s), if these could be toxicologically relevant.

**Data relevant to recommending MRLs**

Data relevant to the evaluation of residues in food products of animal origin, including:

1. Chemical identity and properties of the drug;
2. Drug use and dosage range;
3. Pharmacokinetic and metabolic studies in experimental animals, target animals, and humans if available (information required by both FAO and WHO);
4. Residue-depletion studies with radiolabelled drugs in target animals from zero withdrawal time to periods extending beyond the recommended withdrawal time (these studies should provide information on total residues, including free and bound residues, and major residue components to permit selection of marker residue and target tissues);
5. Residue-depletion studies with unlabelled drugs for the analysis of marker residue in target animals and in eggs, milk, and honey (these should include studies with appropriate formulations, routes of application, and species, at doses up to the maximum recommended);
6. A description of the analytical procedures used by the sponsor for the detection and determination of parent drug residues with information on validation and performance characteristics;
7. A review of routine analytical methods that may be used by regulatory authorities for the detection of residues in target tissue, including information on quality assurance systems and sampling procedures recommended; and
8. Information on registration status of veterinary drugs and on approved conditions of use.

As FAO is still teleworking at the time of publication of this call for data, this information needs to be submitted electronically to the following e-mail address [jecfa@fao.org](mailto:jecfa@fao.org), if an electronic submission is not possible, please contact us for alternative deliveries:

Dr Markus Lipp  
Food Systems and Food Safety Division  
Telephone: +39 06 5705 3283  
E-mail: [jecfa@fao.org](mailto:jecfa@fao.org)

**Presentation of data**

Please note that the above lists are not meant to be all-inclusive since it is recognized that other studies may, in some instances, assist in the evaluation.

Procedures for the evaluation of chemicals in food were updated and published by FAO and WHO (Methods and *Principles for the Safety Assessment of Food Additives and Contaminants in Food* – Environmental Health Criteria No. 240, available at <https://www.who.int/publications/i/item/9789241572408>

Specific guidance on the evaluation of and data needs for food additives are also available from FAO and WHO (see <http://www.fao.org/food-safety/scientific-advice/jecfa/jecfa-guidelines/en/> and [https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/procedural-guidance](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/procedural-guidance)).

All relevant data, both positive and negative, should be submitted. Data should be presented, summarized and referenced in a clear and concise manner.

*This call for data is available at both the FAO and WHO web sites:*

<http://www.fao.org/food-safety/scientific-advice/calls-for-data-and-experts-expert-rosters/en/>  
[https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/calls-for-data](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/calls-for-data)

## Annex 1

**Joint FAO/WHO Expert Committee on Food Additives (JECFA)****Remote, 16 – 27 May 2022****List of substances scheduled for evaluation or re-evaluation**

General information: Links to available electronic versions of the reports published in the WHO Technical Report Series, toxicological monographs published in the WHO Food Additives Series and residue monographs published in the FAO JECFA Monograph series and the FAO Food and Nutrition Paper 41 series that are referenced below are available at the JECFA web-pages of FAO and WHO. FAO and WHO procedural guidelines and guidelines for the preparation of toxicological working papers and guidelines for the preparation of working papers on the residue evaluation are available from the JECFA Secretariats or at [https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/procedural-guidance](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/procedural-guidance) and <http://www.fao.org/food-safety/scientific-advice/jecfa/jecfa-guidelines/en/>.

**Note: It is necessary to consult the requirements and background, including previous evaluations, as contained in previous reports and monographs of the Committee before submitting data.**

<b>New evaluations/ re-evaluations</b>		
<b>Substance</b>	<b>References</b>	<b>Data required</b>
Imidacloprid	Appendix VI of the report of the twenty-fifth session of CCRVDF (1).  ADI set by JMPR at 0-0.06 mg/kg bw in 2001, and ARfD 0.4 mg/kg bw in 2002	All data necessary to assess the health risk, establish relevant Health Based Guidance Values and recommend MRLs for fin fish in muscle and skin in natural proportions.
Ivermectin	Appendix VI of the report of the twenty-fifth session of CCRVDF (1).  Evaluated by JECFA in 2019 (2).  ADI set by JECFA at 0-10 µg/kg bw in 2015, and ARfD 0.2 mg/kg bw in 2015	All data necessary to reevaluate MRLs for pigs, sheep and goats in muscle, liver, kidney and fat.
Nicarbazin	Appendix VI of the report of the twenty-fifth session of CCRVDF (1).  ADI set by JECFA at 0-0.4 mg/kg bw in 1998.	All data necessary to assess the health risk, establish relevant Health Based Guidance Values and recommend MRLs in chicken tissues.

<b>Pilot “parallel review”</b>		
<b>Substance</b>	<b>References</b>	<b>Data required</b>
Selamectin	Appendix VI of the report of the twenty-fifth session of CCRVDF (1).  Evaluated by JECFA in 2019 (2). No MRLs were recommended.	Additional data/scientific argument to enable MR and MR:TRR to be determined, analytical method, information on GVP, stability of radiolabel in tissues.

## References

1. Report of the twenty-fifth session of the Codex Committee on Residues of Veterinary Drugs in Foods. Virtual meeting, 12-20 July 2021 <http://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FMeetings%252FCX-730-25%252FREPORT%252520COMPILATION-APPENDICES%252520FOR%252520ADOPTION%252FDRAFT%252FBREP21-RVDF%252Bbody%252Breport%252BE%2528CLEAN%252BFOR%252BADOPTION%2529.pdf>
2. Evaluation of certain veterinary drug residues in food (Eighty-eighth meeting of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 1023, 2020 <https://apps.who.int/iris/bitstream/handle/10665/330821/9789241210324-eng.pdf>

## Annex 2

### JOINT FAO/WHO EXPERT COMMITTEE ON FOOD ADDITIVES

#### BACKGROUND

The Joint FAO/WHO Expert Committee on Food Additives (JECFA) was established in the mid-1950s by the Food and Agriculture Organization of the United Nations (FAO) and the World Health Organization (WHO) to assess chemical additives in food on an international basis. The first meeting was held in 1956 in response to recommendations made at an FAO/WHO Conference on Food Additives that met in Geneva in 1955.

In the early 1960s the Codex Alimentarius Commission (CAC), which is an international intergovernmental body, was established. The primary aims of the CAC are to protect the health of the consumer and facilitate international trade in food. At the time that the CAC was formed it was decided that JECFA would provide expert advice to Codex on matters relating to food additives. A system was established whereby the Codex Committee on Food Additives, a general subject committee, identified food additives that should receive priority attention, which were then referred to JECFA for assessment before being considered for inclusion in Codex Food Standards.

This system is still in place, but it has been expanded to include food contaminants and residues of veterinary drugs in food to provide advice to the presently-existing Codex Committee on Food Additives (CCFA), Codex Committee on Contaminants in Food (CCCF) and Codex Committee on Residues of Veterinary Drugs in Foods (CCRVD). JECFA also provides scientific advice directly to FAO and WHO Member States, and requests for assessment may come directly from them. JECFA is not a component of the CAC.

Specialists invited to serve as Members of JECFA are independent scientists who serve in their individual capacities as experts, and not as representatives of their governments or employers. The goal is to establish safe levels of intake and to develop specifications for identity and purity (food additives) or maximum residue limits when veterinary drugs are used in accordance with good practice in the use of veterinary drugs.

The reports of previous JECFA meetings are published in the WHO Technical Report Series ([https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/publications/reports](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/publications/reports)). The toxicological evaluations that summarize the data that serve as the basis for the safety assessments, are published in the WHO Food Additives Series ([https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/publications/toxicological-monographs](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/publications/toxicological-monographs)).

The specifications and veterinary drug residue evaluations are published in the FAO JECFA Monographs. The Combined Compendium of Food Additive Specifications of all current JECFA specifications is available on-line <http://www.fao.org/food/food-safety-quality/scientific-advice/jecfa/jecfa-additives/en/>. The updated database on specifications for flavouring agents is available at <http://www.fao.org/food/food-safety-quality/scientific-advice/jecfa/jecfa-flav/en/>. The Chemical Technical Assessments can be found at the following link by selecting “JECFA chemical and technical assessments” in the “Categories” window then clicking “Search”: <http://www.fao.org/food-safety/resources/publications/en/>.

A *Summary of Evaluations* performed by the Joint FAO/WHO Expert Committee on Food Additives, a comprehensive searchable database that summarizes all JECFA evaluations from the first through recent meetings, is available at [https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/publications/summary-reports](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/publications/summary-reports).