

WHO FOOD ADDITIVES SERIES: 72

---

Prepared by the eighty-first meeting of the  
Joint FAO/WHO Expert Committee  
on Food Additives (JECFA)

# Toxicological evaluation of certain veterinary drug residues in food



Food and Agriculture  
Organization of the  
United Nations



World Health  
Organization



Prepared by the eighty-first meeting of the  
Joint FAO/WHO Expert Committee  
on Food Additives (JECFA)

# Toxicological evaluation of certain veterinary drug residues in food

The summaries and evaluations contained in this book are, in most cases, based on unpublished proprietary data submitted for the purpose of the JECFA assessment. A registration authority should not grant a registration on the basis of an evaluation unless it has first received authorization for such use from the owner who submitted the data for JECFA review or has received the data on which the summaries are based, either from the owner of the data or from a second party that has obtained permission from the owner of the data for this purpose.

World Health Organization, Geneva, 2016



Food and Agriculture  
Organization of the  
United Nations



World Health  
Organization

WHO Library Cataloguing-in-Publication Data

Toxicological evaluation of certain veterinary drug residues in food / Prepared by the eighty-first meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA).

(WHO food additives series ; 72)

1. Drug residues - toxicity. 2. Veterinary drugs - adverse effects. 3. Food contamination. 4. Risk assessment.  
I. Joint FAO/WHO Expert Committee on Food Additives. Meeting (81st : 2015 : Rome, Italy). II. Series.

ISBN 978 92 4 166072 3

ISBN 978 92 4 069547 4 (PDF)

ISSN 0300-0923

(NLM classification: WA 701)

© World Health Organization 2016

All rights reserved. Publications of the World Health Organization are available on the WHO website ([www.who.int](http://www.who.int)) or can be purchased from WHO Press, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, Switzerland (tel.: +41 22 791 3264; fax: +41 22 791 4857; email: [bookorders@who.int](mailto:bookorders@who.int)).

Requests for permission to reproduce or translate WHO publications – whether for sale or for non-commercial distribution – should be addressed to WHO Press through the WHO website ([www.who.int/about/licensing/copyright\\_form/en/index.html](http://www.who.int/about/licensing/copyright_form/en/index.html)).

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by the World Health Organization in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by the World Health Organization to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the World Health Organization be liable for damages arising from its use.

This publication contains the collective views of an international group of experts and does not necessarily represent the decisions or the policies of the World Health Organization.

Design: Rania Spatha ([www.raniaspatha.com](http://www.raniaspatha.com))

Printed in Malta

# CONTENTS

<b>Preface</b>	v
<b>Residues of veterinary drugs</b>	1
Diflubenzuron	3
Ivermectin	49
Sisapronil	75
Teflubenzuron	99
<b>Annex 1</b>	
Reports and other documents resulting from previous meetings of the Joint FAO/WHO Expert Committee on Food Additives	141
<b>Annex 2</b>	
Abbreviations used in the monographs	153
<b>Annex 3</b>	
Participants in the eighty-first meeting of the Joint FAO/WHO Expert Committee on Food Additives	155
<b>Annex 4</b>	
Recommendations on compounds on the agenda	159



## PREFACE

The monographs contained in this volume were prepared at the eighty-first meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA), which met at FAO headquarters in Rome, Italy, on 17–26 November 2015. These monographs summarize the data on the safety of residues in food of selected veterinary drugs reviewed by the Committee.

The eight-first report of JECFA has been published by WHO as WHO Technical Report No. 997. Reports and other documents resulting from previous meetings of JECFA are listed in [Annex 1](#). The participants in the meeting are listed in [Annex 3](#) of the present publication. A summary of the conclusions of the Committee is given in [Annex 4](#).

JECFA serves as a scientific advisory body to FAO, WHO, their Member States and the Codex Alimentarius Commission, primarily through the Codex Committee on Food Additives, the Codex Committee on Contaminants in Food and the Codex Committee on Residues of Veterinary Drugs in Foods, regarding the safety of food additives, residues of veterinary drugs, naturally occurring toxicants and contaminants in food. Committees accomplish this task by preparing reports of their meetings and publishing specifications or residue monographs and toxicological monographs, such as those contained in this volume, on substances that they have considered.

The toxicological monographs contained in this volume are based on working papers that were prepared by WHO experts. A special acknowledgement is given at the beginning of each monograph to those who prepared these working papers. The monographs were edited by M. Sheffer, Ottawa, Canada. Toxicological monographs were not prepared for all of the substances listed in [Annex 4](#).

Many unpublished proprietary reports are submitted to the Committee by various producers of the veterinary drugs under review and in many cases represent the only data available on those substances. The WHO experts based the working papers they wrote on all the data that were submitted, and all these reports were available to the Committee when it made its evaluations.

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or its authorities, or concerning the delimitation of its frontiers or boundaries. The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by the World Health Organization in preference to others of a similar nature that are not mentioned.

Any comments or new information on the biological or toxicological properties of the compounds evaluated in this publication should be addressed to: Joint WHO Secretary of the Joint FAO/WHO Expert Committee on Food Additives, Department of Food Safety and Zoonoses, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, Switzerland.

预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_27012](https://www.yunbaogao.cn/report/index/report?reportId=5_27012)

