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Evaluation of certain veterinary drug residues in food

Seventy-eighth report of the Joint FAO/WHO Expert Committee on Food Additives

World Health Organization

Evaluation Of Certain Veterinary Drug Residues In Food 48th Report

Thomas Griffiths

Evaluation Of Certain Veterinary Drug Residues In Food 48th Report:

Evaluation of Certain Veterinary Drug Residues in Food Switzerland) Joint FAO/WHO expert committee on food additives (48th:1997:Geneva,1998 **Chemical Analysis of Antibiotic Residues in Food** Jian Wang,James D. MacNeil,Jack F. Kay,2011-11-29 An insightful exploration of the key aspects concerning the chemical analysis of antibiotic residues in food The presence of excess residues from frequent antibiotic use in animals is not only illegal but can pose serious health risks by contaminating products for human consumption such as meat and milk Chemical Analysis of Antibiotic Residues in Food is a single source reference for readers interested in the development of analytical methods for analyzing antibiotic residues in food It covers themes that include quality assurance and quality control antibiotic chemical properties pharmacokinetics metabolism distribution food safety regulations and chemical analysis In addition the material presented includes background information valuable for understanding the choice of marker residue and target animal tissue to use for regulatory analysis This comprehensive reference Includes topics on general issues related to screening and confirmatory methods Presents updated information on food safety regulation based on routine screening and confirmatory methods especially LC MS Provides general guidance for method development validation and estimation of measurement uncertainty Chemical Analysis of Antibiotic Residues in Food is written and organized with a balance between practical use and theory to provide laboratories with a solid and reliable reference on antibiotic residue analysis Thorough coverage elicits the latest scientific findings to assist the ongoing efforts toward refining analytical methods for producing safe foods of animal origin

Residue Evaluation of Certain Veterinary Drugs Food and Agriculture Organization of the United Nations,World Health Organization,2018-05-29 This volume of FAO JECFA Monographs contains residue evaluation of certain veterinary drugs prepared at the 85th Meeting of the Joint FAO WHO Expert Committee on Food Additives JECFA held in Geneva 17 26 October 2017 This was the twenty fifth JECFA meeting specifically convened to consider residues of veterinary drugs in food The Committee elaborated principles for evaluating the safety of residues of veterinary drugs in food for establishing acceptable daily intakes ADIs and acute reference doses ARfDs and for recommending maximum residue limits MRLs for such residues when the drugs under consideration are administered to food producing animals in accordance with good practice in the use of veterinary drugs GVP Furthermore the committee evaluated the safety of residues of eight veterinary drugs and responded to specific concerns raised by the Codex Committee on Residues of Veterinary Drugs in Foods The enclosed monographs provide the scientific basis for the recommendations of MRLs including information on chemical identity and properties of the compounds pharmacokinetics and metabolism residue depletion studies and analytical methods validated and used for the detection and quantification of the compounds This publication and other documents produced by JECFA contain information that is useful to all those who work with or are involved with recommending or controlling maximum residue limits for veterinary drugs in food *Residue evaluation of certain veterinary drugs* FAO;

WHO,2024-10-16 This volume of FAO JECFA Monographs contains residue evaluation of certain veterinary drugs prepared at the 98th Meeting of the Joint FAO WHO Expert Committee on Food Additives JECFA held from 20 to 29 February 2024 This JECFA meeting was convened specifically to consider residues of veterinary drugs in food producing animal species The tasks for the Committee were to further elaborate principles for evaluating the safety of residues of veterinary drugs in food and for establishing acceptable daily intakes ADIs and or acute reference doses ARfDs and to recommend maximum residue limits MRLs for substances when they are administered to food producing animals in accordance with good veterinary practice GVP in the use of veterinary drugs The present volume contains monographs on the evaluations of residue data of substances scheduled for evaluation at the request of the Codex Committee on Residues of Veterinary Drugs in Food A summary of the recommendations on compounds is also presented in this report The enclosed monographs provided the scientific basis for the recommendations of MRLs Residue evaluation of certain veterinary drugs – Joint FAO/WHO Expert Committee on Food Additives, Ninety-eighth Meeting 20–29 February 2024 World Health Organization,Food and Agriculture Organization of the United Nations,2024-10-23 This volume of FAO JECFA Monographs contains residue evaluation of certain veterinary drugs prepared at the 98th meeting of the Joint FAO WHO Expert Committee on Food Additives JECFA held from 20 to 29 February 2024 This JECFA meeting was convened specifically to consider residues of veterinary drugs in food producing animal species The tasks for the Committee were to further elaborate principles for evaluating the safety of residues of veterinary drugs in food and for establishing acceptable daily intakes ADIs and or acute reference doses ARfDs and to recommend maximum residue limits MRLs for substances when they are administered to food producing animals in accordance with good veterinary practice GVP in the use of veterinary drugs The present volume contains monographs on the evaluations of residue data of substances scheduled for evaluation at the request of the Codex Committee on Residues of Veterinary Drugs in Food A summary of the recommendations on compounds is also presented in this report The enclosed monographs provided the scientific basis for the recommendations of MRLs *Residue evaluation of certain veterinary drugs – Joint FAO/WHO Expert Committee on Food Additives, 94th Meeting (Virtual) 16–27 May 2022* World Health Organization,Food and Agriculture Organization of the United Nations,2023-07-17 Residue Evaluation of Certain Veterinary Drugs Joint FAO/WHO Expert Committee on Food Additives. Meeting,Food and Agriculture Organization of the United Nations,2006-01-01 Joint FAO WHO Expert Committee on Food Additives 66th meeting Rome 22 28 February 2006 Technical Report Series ,1998 Residue Evaluation of Certain Veterinary Drugs Joint FAO/WHO Expert Committee on Food Additives. Meeting,2014 This document contains monographs on residue evaluations of certain veterinary drugs prepared at the seventy eight meeting of the Joint FAO WHO Expert Committee on Food Additives JECFA which was held in Geneva Switzerland from 5 to 14 November 2013 Four substances were evaluated for the first time emamectin benzoate gentian violet lasalocid sodium and zilpaterol hydrochloride Four additional substances were re evaluated derquantel

ivermectin monepantel and recombinant bovine somatotrophins The monographs provide information on chemical identity and properties of the compounds pharmacokinetics and metabolism residue depletion studies and analytical methods validated and used for the detection and quantification of the compounds In addition this document provides an overview of the pilot project to evaluate alternative approaches to estimate daily intakes of residues of veterinary drugs in foods and provides guidance on the extrapolation of MRLs to minor species and for the establishment of MRLs in honey This publication and other documents produced by JECFA contain information that is useful to all those who work with or are involved with recommending or controlling maximum residue limits for veterinary drugs in foods of animal origin

Veterinary and Human Toxicology ,1999 *Veterinary Epidemiology* Michael Thrusfield,2018-02-19 A comprehensive introduction to the role of epidemiology in veterinary medicine This fully revised and expanded edition of Veterinary Epidemiology introduces readers to the field of veterinary epidemiology The new edition also adds new chapters on the design of observational studies validity in epidemiological studies systematic reviews and statistical modelling to deliver more advanced material This updated edition begins by offering an historical perspective on the development of veterinary medicine It then addresses the full scope of epidemiology with chapters covering causality disease occurrence determinants disease patterns disease ecology and much more Veterinary Epidemiology Fourth Edition Features updates of all chapters to provide a current resource on the subject of veterinary epidemiology Presents new chapters essential to the continued advancement of the field Includes examples from companion animal livestock and avian medicine as well as aquatic animal diseases Focuses on the principles and concepts of epidemiology surveillance and diagnostic test validation and performance Includes access to a companion website providing multiple choice questions Veterinary Epidemiology is an invaluable reference for veterinary general practitioners government veterinarians agricultural economists and members of other disciplines interested in animal disease It is also essential reading for epidemiology students at both the undergraduate and postgraduate levels **Evaluation of Certain Veterinary Drug Residues in Food** Joint FAO/WHO Expert Committee on Food Additives. Meeting,World Health Organization,Food and Agriculture Organization of the United Nations,2009 This report represents the conclusions of a Joint FAO WHO Expert Committee convened to evaluate the safety of residues of certain veterinary drugs in food and to recommend maximum levels for such residues in food The first part of the report considers general principles regarding the evaluation of veterinary drugs within the terms of reference of the Joint FAO WHO Expert Committee on Food Additives JECFA including a hypothesis driven decision tree approach for the safety evaluation of residues of veterinary drugs comments on the Committee for Veterinary Products for Medicinal Use reflection paper on the new approach developed by JECFA for exposure and maximum residue limit MRL assessment of residues residues of veterinary drugs in honey and possible approaches to derive MRLs for this commodity comments on a paper entitled Risk assessment policies Differences among jurisdictions and the use of no observed effect level NOEL and no observed adverse

effect level NOAEL in JECFA assessments Summaries follow of the Committee s evaluations of toxicological and residue data on a variety of veterinary drugs three antimicrobial agents avilamycin tilmicosin tylosin one authentic triclabendazole one production aid melengestrol acetate two antimicrobial agents and production aids monesin and narasin a glucocorticosteroid dexamethasone and an antimicrobial agent ands contaminant malachite green Annexed to the report is a summary of the Committee s recommendations on these drugs including acceptable daily intakes ADI s and proposed MRL s **Residues of Some Veterinary Drugs in Animals and Foods** Joint FAO/WHO Expert Committee on Food Additives. Meeting,Food and Agriculture Organization of the United Nations,1998-01-01 This document is one of the three publications prepared by the forty eighth session of the Joint FAO WHO Expert Committee on Food Additives JECFA held in Geneva February 1997 and dedicated exclusively to the evaluation of veterinary drug residues in food The report of the meeting will be published in the WHO Technical Report Series and the toxicological monographs as No 39 in the WHO Food Additives Series Residue monographs in this document provide information on chemical identity properties use pharmacokinetics metabolism tissue residue depletion of and analytical methods for substances indicated on the cover This publication is meant for regulatory authorities veterinary drug researchers and any other concerned persons who wish to gain information and insights into the needs and problems involved in establishing maximum limits for veterinary drug residues in food **Evaluation of Certain Veterinary Drug Residues in Food** World Health Organization,2016-02-22 This report represents the conclusions of a Joint FAO WHO Expert Committee convened to evaluate the safety of residues of certain veterinary drugs in food and to recommend maximum levels for such residues in food The first part of the report considers general principles regarding the evaluation of residues of veterinary drugs within the terms of reference of the Joint FAO WHO Expert Committee on Food Additives JECFA including MRLs for generic fish species acute reference doses ARfDs for veterinary drugs an approach for dietary exposure assessment of compounds used for multiple purposes i e veterinary drugs and pesticides dietary exposure assessment for less than lifetime exposure and the assessment of short term 90 day and 12 month studies in dogs Summaries follow of the Committee s evaluations of toxicological and residue data on a variety of veterinary drugs two insecticides diflubenzuron and teflubenzuron an antiparasitic agent ivermectin an ectoparasiticide sisapronil and a B2 adrenoceptor agonist zilpaterol hydrochloride In addition the Committee considered issues raised in concern forms from the Codex Committee on Residues of Veterinary Drugs in Foods on lasalocid sodium an antiparasitic agent Annexed to the report is a summary of the Committee s recommendations on these drugs including acceptable daily intakes ADIs ARfDs and proposed MRLs **Veterinary Pharmacovigilance** Kevin Woodward,2009-11-24 Veterinary Pharmacovigilance Adverse Reactions to Veterinary Medicinal Products is an in depth examination of veterinary pharmacovigilance looking at the scientific methodologies involved the role of regulatory agencies and legislation and the underpinning science Edited by a renowned expert with over 20 years of experience in the field it draws together the expertise of authors from around the world

Evaluation of Certain Veterinary Drug Residues in Food Joint FAO/WHO Expert Committee on Food Additives. Meeting,2009 **Evaluation of Certain Veterinary Drug Residues in Food** Joint FAO/WHO Expert Committee on Food Additives. Meeting,World Health Organization,2006 This report represents the conclusions of a Joint FAO WHO Expert Committee convened to evaluate the safety of residues of certain veterinary drugs in food and to recommend maximum levels for such residues in food The first part of the report considers general principles regarding the evaluation of veterinary drugs within the terms of reference of JECFA including compounds without an ADI or MRL recommendations on principles and methods in derivation of MRLs including a new procedure for estimating chronic dietary intakes the use of a spreadsheet based procedure for the statistical evaluation of residue depletion data a revised approach for the derivation of microbiological ADIs and the Committee s review of and comments on documents provided by the Codex Committee on Residues of Veterinary Drugs Summaries follow of the Committee s evaluations of toxicological and residue data on a variety of veterinary drugs three antimicrobial agents colistin erythromycin flumequine two production aids melengestrol acetate ractopamine hydrochloride an insecticide trichlorfon metrifonate and an anthelminthic triclabendazole In addition the attempt by the Committee to use tylosin as an example to investigate if evaluations are possible based on published data in the absence of data submissions from sponsors is described Annexed to the report is a summary of the Committee s recommendations on these drugs including acceptable daily intakes and proposed maximum residue limits The Stationery Office Agency Catalogue Stationery Office (Great Britain),2000 **Evaluation of certain veterinary drug residues in food: ninety-fourth report of the Joint FAO/WHO Expert Committee on Food Additives** World Health Organization,Food and Agriculture Organization of the United Nations,2022-10-05 This report represents the conclusions of a Joint FAO WHO Expert Committee convened to evaluate the safety of residues of certain veterinary drugs in food and to recommend maximum levels for such residues in food The first part of the report considers general principles regarding the evaluation of residues of veterinary drugs within the terms of reference of the Joint FAO WHO Expert Committee on Food Additives JECFA It covers topics such as the parallel review process estimation of dietary exposure to veterinary drug residues a risk based decision tree approach for safety evaluation assessment of the potential effects of residues on the human intestinal microbiome Summaries follow the Committee s evaluations of toxicological and residue data on a variety of veterinary drugs two antiparasitic agents imidacloprid ivermectin and one coccidiostat nicarbazin Additionally further evaluation of the parasiticide selamectin is included as part of a pilot in support of the proposed parallel review process Annexed to the report is a summary of the Committee s recommendations on these drugs including acceptable daily intakes and proposed maximum residue limits *Evaluation of certain veterinary drug residues in food* World Health Organization,Food and Agriculture Organization of the United Nations,2020-02-13 This report represents the conclusions of a Joint FAO WHO Expert Committee convened to evaluate the safety of residues of certain veterinary drugs in food and to

recommend maximum levels for such residues in food The first part of the report considers general principles regarding the evaluation of residues of veterinary drugs within the terms of reference of the Joint FAO WHO Expert Committee on Food Additives JECFA including harmonization of residue definition use of scientific literature in risk assessment toxicological profiling of compounds and less than lifetime dietary exposure assessment combined exposure to multiple chemicals and microbiological effects on the safety evaluation of veterinary drug residues in food Summaries follow the Committee s evaluations of toxicological and residue data on a variety of veterinary drugs three insecticides diflubenzuron ethion and flumethrin three antimicrobials fosfomycin halquinol and ivermectin and one antiparasitic agent selamectin Annexed to the report is a summary of the Committee s recommendations on these drugs including acceptable daily intakes ADIs and proposed MRLs

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Table of Contents Evaluation Of Certain Veterinary Drug Residues In Food 48th Report

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web trimyristin is found in the fixed oil of nutmeg the fixed oil comprises approximately 24 40 of the nutmeg seed trimyristin comprises 73 of the fixed oil overall trimyristin should have percent recovery of 18 29 1 figure 1 shows how trimyristin is

triester formed from the dehydration reaction between glycerol and myristic acid oh

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web purpose the purpose of this lab is to extract trimyristin from nutmeg as well as synthesizing myristic acid from the extracted trimyristin using base hydrolysis and naoh acidification using hcl is necessary to characterize the product by finding the melting point

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web in this lab trimyristin is extracted from ground nutmeg occuring in many vegetable oils as well as myristic acid trimyristin consists of long saturated hydrocarbon chains and it is relatively nonpolar thus using a relatively nonpolar solvent trimyristin can be easily extracted by the concept of like dissolves like

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