

**WHO FOOD  
ADDITIVES  
SERIES: 65**

# **Safety evaluation of certain food additives and contaminants**

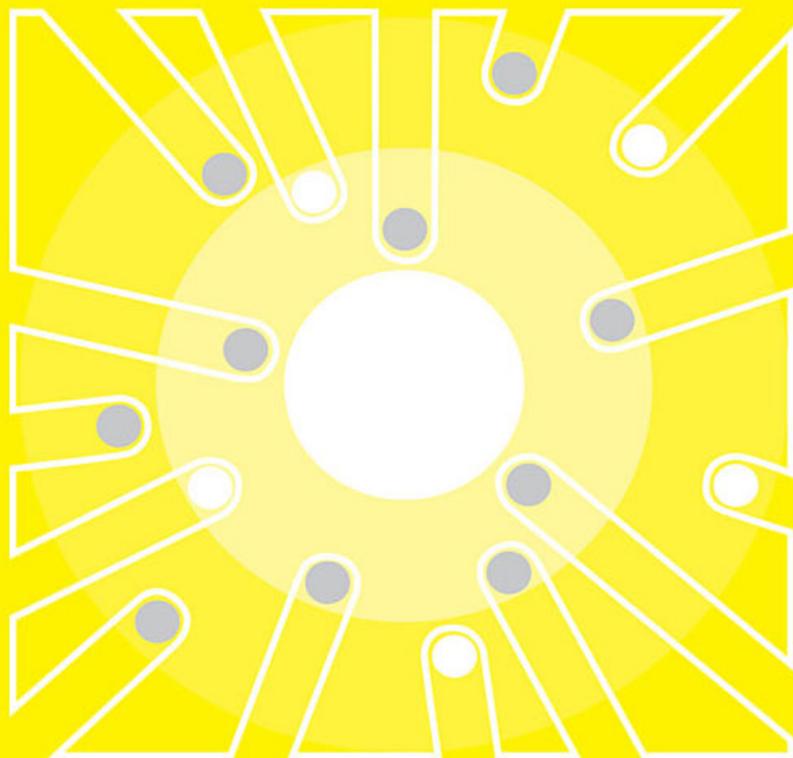
Prepared by the  
Seventy-fourth meeting of the Joint FAO/WHO  
Expert Committee on Food Additives (JECFA)



**Food and Agriculture  
Organization of  
the United Nations**



**World Health  
Organization**



---

**WHO FOOD  
ADDITIVES  
SERIES: 65**

---

# **Safety evaluation of certain food additives and contaminants**

**Prepared by the  
Seventy-fourth meeting of the Joint FAO/  
WHO Expert Committee on Food Additives  
(JECFA)**

**World Health Organization, Geneva, 2012**

WHO Library Cataloguing-in-Publication Data

Safety evaluation of certain food additives and contaminants / prepared by the Seventy-fourth meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA).

(WHO food additives series ; 65)

1.Food additives - toxicity. 2.Food contamination. 3.Flavoring agents - analysis. 4.Flavoring agents - toxicity. 5.Risk assessment. I.Joint FAO/WHO Expert Committee on Food Additives. Meeting (74th : 2011 : Rome, Italy). II.World Health Organization. III.Series.

ISBN 978 92 4 166065 5  
ISSN 0300-0923

(NLM classification: WA 712)

**© World Health Organization 2012**

All rights reserved. Publications of the World Health Organization are available on the WHO web site ([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; e-mail: [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 web site ([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 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 express 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.

Typeset in India  
Printed in Malta

## CONTENTS

Preface .....	v
Specific food additives	
Aluminium-containing food additives (addendum).....	3
Benzoe Tonkinensis.....	87
Ponceau 4R (addendum) .....	101
Pullulanase from <i>Bacillus deramificans</i> expressed in <i>Bacillus licheniformis</i> .....	117
Quinoline Yellow (addendum) .....	127
Sunset Yellow FCF (addendum).....	141
Contaminants	
Cyanogenic glycosides (addendum) .....	171
Fumonisin (addendum).....	325
Annexes	
Annex 1 Reports and other documents resulting from previous meetings of the Joint FAO/WHO Expert Committee on Food Additives .....	797
Annex 2 Abbreviations used in the monographs.....	809
Annex 3 Participants in the seventy-fourth meeting of the Joint FAO/WHO Expert Committee on Food Additives .....	813
Annex 4 Tolerable and acceptable intakes, other toxicological information and information on specifications.....	817



## PREFACE

The monographs contained in this volume were prepared at the seventy-fourth meeting of the Joint Food and Agriculture Organization of the United Nations (FAO)/World Health Organization (WHO) Expert Committee on Food Additives (JECFA), which met at FAO headquarters in Rome, Italy, on 14–23 June 2011. These monographs summarize the data on selected food additives and contaminants reviewed by the Committee.

The seventy-fourth report of JECFA has been published by the World Health Organization as WHO Technical Report No. 966. 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.

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 monographs contained in this volume are based on working papers that were prepared by temporary advisers. 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.

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 organizations participating in WHO 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 organizations 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.



## SPECIFIC FOOD ADDITIVES

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\\_28420](https://www.yunbaogao.cn/report/index/report?reportId=5_28420)

