

British
Pharmacopæia
1988
Addendum 1989

# British Pharmacopæia 1988 Addendum 1989

Published on the recommendation of the Medicines Commission pursuant to the Medicines Act 1968

Effective date: 1 July 1989

see Notice, page xlviii



London Her Majesty's Stationery Office

DEPARTMENT OF HEALTH
SCOTTISH HOME AND HEALTH DEPARTMENT
WELSH OFFICE
DEPARTMENT OF HEALTH AND SOCIAL SERVICES FOR NORTHERN IRELAND

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With the coming into effect of this Addendum the British Pharmacopœia 1988 comprises the main volumes (Volumes I and II) and the Addendum 1989.

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ISBN 0 11 321162 7

British Pharmacopæia 1988 Addendum 1989

#### **Notices**

The General Notices and Appendices included in the British Pharmacopæia 1988 apply to all matter contained in this Addendum unless the contrary is specifically stated.

The Addendum has the same authority as the British Pharmacopæia 1988. Monographs and Appendices of the British Pharmacopæia 1988 that are amended by this Addendum supersede, in their amended forms, the original monographs and appendices.

Monographs of the European Pharmacopæia are distinguished by a five-pointed star against the title.

#### Patents

In this Addendum certain drugs and preparations have been included notwithstanding the existence of actual or potential patent rights. In so far as such substances are protected by Letters Patent their inclusion in this Addendum neither conveys, nor implies, licence to manufacture.

#### **Effective Dates**

Much of the material in this volume enters into force on 1 July 1989 but certain material that has been published earlier by Gazette Notices became effective on the date stated at the foot of the relevant entry.

## Preface

This Addendum adds new material to and amends the British Pharmacopœia 1988. It is published by Her Majesty's Stationery Office for the Health Ministers on the recommendation of the Medicines Commission in accordance with section 99(6) of the Medicines Act 1968.

The Medicines Commission wishes to record its deep regret at the death of Dr C A Johnson CBE, lately Secretary and Scientific Director of the British Pharmacopæia Commission, who had retired in January 1988 after twenty-five years of distinguished service.

The Medicines Commission also expresses its appreciation to all who have contributed to the preparation of this Addendum.

ORNI addition MAINTENANT CONSECUTION

LANDOWSE WAR BANG AND CAREST CHIEF PHILOD

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1

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<sup>\*</sup> Term of office ends 31 December 1991. † Term of office ends 31 December 1989.

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	follows:
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Bruyneel (B), M Schrenzel (CH), D Schulte (D)

E Castren (S), S U Ruff (UK)

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Group No 9: Inorganic

Sub-group No 8S: Adhesive

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Michotte (B), J C Beyer (CH), D Giegling (D), M Mazza (F), G Zanni (I),

Dressings

Chemistry

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Sub-group No 12R: Glass Containers

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Group No 13: Pharmacognosy I Kapétanidis (Chairman), T Kartnig (A), A Vlietinck (B), O Sticher (CH), H G Menßen (D), R Anton (F), S Philianos (GR), A Imbesi (I), J H Zwaving (NL), J D Phillipson (UK)

Sub-group No 13H: Fatty Oils

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Group No 14: Radioactive Compounds

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Group No 16: Plastic Containers for Pharmaceutical Use J P Billon (Chairman), W Lhoest (B), S Thorens (CH), R Rößler (D), V Handlos (DK), G Gernez (F), L Gramiccioni Valsecchi (I), J W Aeijelts Averink (NL), A Arbin (S), J E Pentelow (UK)

## Introduction

The British Pharmacopæia Commission intends that Addenda to the British Pharmacopæia 1988 should generally be produced every 12 to 18 months as was the practice with the first three addenda to the British Pharmacopæia 1980. This will facilitate the rapid revision of monographs and other texts in the light of developments in pharmaceutical production and quality control. In addition, the regular updating should help to ensure that the British Pharmacopæia will always include the current versions of all monographs of the European Pharmacopæia, edited into the style of the British Pharmacopæia for the convenience of

users of the British Pharmacopæia.

The numbering of the pages in this Addendum is consecutive with that of the British Pharmacopæia 1988. The index is cumulative and it contains references to all material published in the British Pharmacopæia 1988 and the Addendum 1989. In general the effective date of this Addendum is 1 July 1989 but a number of items, particularly edited versions of European Pharmacopæia monographs, have already been, or will be, brought into effect at some other date. Where the effective date is not 1 July 1989, this is noted at the foot of the entry by means of an italicised statement of the month and year. Where no such statement appears it is to be understood that the effective date is that of the Addendum as a whole. With the bringing into effect of this Addendum, the British Pharmacopæia 1988 will comprise Volume I, Volume II and the Addendum 1989. It should be noted that material in Amendments Nos 1 and 2 to the British Pharmacopæia 1988 has been incorporated in this Addendum.

Some Additions

Monographs included in the Pharmacopæia for the first time include the corticosteroid Dexamethasone Acetate, Pizotifen Malate, which is used for the prophylaxis of migraine, Ascorbic Acid Injection, Menadiol Phosphate Injection, Procyclidine Injection, Nitrazepam Oral Suspension, Pizotifen Tablets and Pseudoephedrine Tablets.

**Bacterial Endotoxins** 

A test for bacterial endotoxins has been introduced. The text, included as Appendix XIV O, is an edited version of that now published in the European Pharmacopæia. The method for the detection of Gramnegative endotoxins is based on the gelation of a lysate of amoebocytes from the horseshoe crab, Limulus polyphemus. A European Pharmacopæia Biological Reference Preparation of Endotoxin calibrated in International Units has been established for use in this test. It is expected that this in vitro test will find progressive application in appropriate monographs of both the British and European Pharmacopæias in place of the in vivo test for pyrogens. With respect to monographs for medicinal substances of the British Pharmacopæia, the Commission has embarked on a programme of seeking the necessary information to allow such replacement.

#### Uniformity of Content

As foreshadowed in the Introduction to the British Pharmacopæia 1988, procedures for carrying out the test for Uniformity of content of active ingredient have been added to a number of monographs for capsules and tablets. With certain exceptions all capsules and tablets containing less than 2 mg or less than 2 per cent of the active ingredient must meet the requirements of the relevant general monograph in this respect regardless of whether or not a procedure is specified in the particular individual monograph. It is the policy of the British Pharmacopæia Commission to continue to add procedures for determining the uniformity of content of active ingredient to specific monographs in Addenda.

#### Dissolution Test

In continuation of the Commission's policy to add requirements for dissolution to appropriate monographs for capsules and tablets on a selective basis as suitable procedures are developed and validated, tests for dissolution have been added to the monographs for Ergotamine Tablets, Methysergide Tablets, Prednisolone Tablets and Prednisone Tablets.

#### European Pharmacopœia

This Addendum contains edited versions of European Pharmacopæia material that has been published in fascicule 11 of the second edition of the European Pharmacopæia. With certain exceptions, the effective date for monographs in that fascicule is 1 January 1989.

#### Use of Animals

The Commission has continued to pursue its policy of reducing reliance on *in vivo* test methods wherever this is deemed compatible with its primary objective of providing satisfactory pharmacopæial standards. Liquid chromatographic assays have replaced biological assays for Gonadorelin and for the oxytocin component of Ergometrine and Oxytocin Injection.

#### Acknowledgements

The British Pharmacopæia Commission records its continued indebtedness to the members of its advisory Committees and Consultative Groups. Without their dedicated enthusiasm and assistance its objectives could not be achieved.

Finally the Commission wishes to express its appreciation of the outstanding contribution made over twenty-five years by Dr C A Johnson, CBE, who was Senior Scientific Assistant from 1963, Scientific Director from 1966 and Secretary and Scientific Director from 1976 until his retirement in January 1988. Sadly, Dr Johnson died on 2 May 1988.

#### Additions

The following monographs are added to the British Pharmacopæia 1988 by means of this Addendum.

Medicinal and Pharmaceutical Substances

Pizotifen Malate

**Formulated Preparations** 

ORAL LIQUIDS
Acid Gentian Mixture
Nitrazepam Oral Suspension

PARENTERAL PREPARATIONS
Ascorbic Acid Injection
Menadiol Phosphate Injection
Procyclidine Injection

TABLETS
Pizotifen Tablets
Pseudoephedrine Tablets

#### Amendments

The following monographs of the British Pharmacopæia 1988 are amended by means of this Addendum.

Medicinal and Pharmaceutical Substances

Ampicillin Sodium Aprotinin

Baclofen

Betamethasone Sodium Phosphate

Calcitonin (Pork) Cephradine Chlordiazepoxide Chloroxylenol Clomiphene Citrate Codeine Hydrochloride

Cycloserine Danthron

Dequalinium Chloride Dichlorphenamide Disopyramide Phosphate Ecothiopate Iodide Fosfestrol Sodium

Glipizide Glucagon Gonadorelin Ibuprofen Ketoprofen Lactulose Solution Levamisole Hydrochloride

Lorazepam Mefenamic Acid Megestrol Acetate

Menadiol Sodium Phosphate

Mexenone

Minocycline Hydrochloride Morphine Sulphate Nandrolone Decanoate Nandrolone Phenylpropionate Nicotinyl Alcohol Tartrate

Oxazepam

Pancuronium Bromide

Phenol

Prazosin Hydrochloride Procyclidine Hydrochloride Pseudoephedrine Hydrochloride

Sodium Diatrizoate Sodium Metabisulphite Sumatra Benzoin Testosterone Tobramycin Vincristine Sulphate

#### Formulated Preparations

CAPSULES Capsules

Cephradine Capsules Chlordiazepoxide Capsules Diazepam Capsules Indomethacin Capsules Mefenamic Acid Capsules Phenytoin Capsules Rifampicin Capsules

CREAMS

Cetrimide Cream Fluorouracil Cream Gentamicin Cream

Hydrocortisone and Neomycin Cream

Urea Cream

EAR DROPS

Chloramphenicol Ear Drops

**EXTRACTS** 

Deglycyrrhinised Liquorice Extract

EYE DROPS

Cyclopentolate Eye Drops

EYE OINTMENTS

Chlortetracycline Eye Ointment

**OINTMENTS** 

Gentamicin Ointment Methyl Salicylate Ointment

ORAL LIQUIDS

Aqueous Iodine Oral Solution

Aromatic Magnesium Carbonate Mixture

Benorylate Oral Suspension Calciferol Oral Solution Ephedrine Elixir

Promethazine Oral Solution

Paediatric Trimeprazine Oral Solution

Rifampicin Oral Suspension

Strong Paediatric Trimeprazine Oral Solution

PARENTERAL PREPARATIONS Ampicillin Injection Aprotinin Injection Betamethasone Injection

Choramphenicol Sodium Succinate Injection

Cortisone Injection

Ergometrine and Oxytocin Injection

Fluorouracil Injection

Fortified Procaine Penicillin Injection

Gentamicin Injection Gonadorelin Injection Melphalan Injection Methotrexate Injection

Nandrolone Decanoate Injection Nandrolone Phenylpropionate Injection

Pancuronium Injection Phenytoin Injection Phytomenadione Injection

Prednisolone Sodium Phosphate Injection

Procaine Penicillin Injection Protamine Sulphate Injection Spectinomycin Injection Testosterone Implants Thiamine Injection Tubocurarine Injection

SOLUTIONS

Monosulfiram Solution

SPIRITS Surgical Spirit SUPPOSITORIES

Indomethacin Suppositories

Ascorbic Acid Tablets Atenolol Tablets Baclofen Tablets Benztropine Tablets

Betamethasone Sodium Phosphate Tablets

Busulphan Tablets Chlordiazepoxide Tablets

Chlordiazepoxide Hydrochloride Tablets

Cortisone Tablets Diazepam Tablets Dichlorphenamide Tablets Dispersible Aspirin Tablets Effervescent Potassium Chloride Tablets Ergotamine Tablets Ferrous Succinate Tablets Ferrous Sulphate Tablets Fludrocortisone Tablets Folic Acid Tablets Griseofulvin Tablets Haloperidol Tablets Imipramine Tablets Lithium Carbonate Tablets Lorazepam Tablets Melphalan Tablets Mepyramine Tablets Methotrexate Tablets Methysergide Tablets

Metronidazole Tablets
Nicotinyl Alcohol Tablets
Paracetamol Tablets
Phenytoin Tablets
Prazosin Tablets
Prednisolone Tablets
Prednisone Tablets
Soluble Aspirin Tablets
Thiamine Tablets
Trimeprazine Tablets
Warfarin Tablets

#### **Immunological Products**

Inactivated Influenza Vaccine (Surface Antigen)

#### Surgical Materials

Absorbent Cotton and Viscose Wadding Elastic Adhesive Bandage Elasticated Tubular Bandage

#### European Pharmacopœia

Monographs of the European Pharmacopæia that are reproduced in edited form in this Addendum replace the monographs in the British Pharmacopæia 1988. Where a monograph appears in the British Pharmacopæia under a different title, the British Pharmacopæia title is given in parentheses.

#### REVISED MONOGRAPHS

### Medicinal and Pharmaceutical Substances

Ascorbic Acid Bacitracin Zinc Benzylpenicillin Potassium Benzylpenicillin Sodium Calcium Carbonate Calcium Chloride Chlordiazepoxide Hydrochloride Cholecalciferol Cholecalciferol Concentrate (Oily Form) Cholecalciferol Concentrate (Powder Form) Codeine Phosphate Hemihydrate (Codeine Phosphate) Disodium Phosphate Dodecahydrate (Sodium Phosphate) Ergocalciferol Ethinylestradiol (Ethinyloestradiol) Hydrocortisone Magnesium Chloride Methyldopa Nitrazepam

# Potassium Chloride Purified Talc Purified Water Sodium Acetate Sodium Carboxymethylcellulose (Carmellose Sodium) Sodium Chloride Trimethoprim Valerian Water for Injections Zinc Oxide

Papaverine Hydrochloride

#### Formulated Preparations

Haemodialysis Solutions

#### **Immunological Products**

Influenza Vaccine (Inactivated) (Inactivated Influenza Vaccine)

#### Radiopharmaceutical Preparations

Technetium[99mTc] Macrosalb Injection

#### **NEW MONOGRAPHS**

## Medicinal and Pharmaceutical Substances

Bupivacaine Hydrochloride
Busulfan (Busulphan)
Carbamazepine
Cetyl Alcohol
Chloroquine Phosphate
Chloroquine Sulphate
Chlortalidone (Chlorthalidone)
Dexamethasone Acetate\*
Dexamethasone Sodium Phosphate
Diazoxide
Dihydroergotamine Mesilate
(Dihydroergotamine Mesylate)

Erythromycin Estolate
Ethambutol Hydrochloride
Lynestrenol (Lynoestrenol)
Mannitol
Methylprednisolone
Penicillamine
Procainamide Hydrochloride
Propranolol Hydrochloride
Protamine Sulphate
Sodium Cromoglicate (Sodium
Cromoglycate)
Sodium Nitroprusside
Timolol Maleate
Verapamil Hydrochloride