

chapter 1

Pharmaceutical solutions for oral administration

Overview

In this chapter we will:

- examine the types and uses of pharmaceutical solutions as oral drug delivery systems
- provide an overview of the advantages and disadvantages of pharmaceutical solutions as oral drug delivery systems
- describe the formulation considerations for orally administered pharmaceutical solutions.

General description

Pharmaceutical solutions may be generally defined as liquid preparations in which the therapeutic agent and the various excipients are dissolved in the chosen solvent system. Pharmaceutical solutions may contain a range of excipients, each with a defined pharmaceutical purpose. Examples of these include:

- the vehicle, usually purified water
- co-solvents, e.g. propylene glycol, glycerin, alcohol
- agents specifically to enhance the solubility of the therapeutic agent in the vehicle, e.g. surface-active agents
- preservatives, e.g. parahydroxybenzoate esters (methylhydroxybenzoate and propylhydroxybenzoate), boric acid and borate salts, sorbic acid and sorbate salts, phenolics
- sweeteners, e.g. glucose, saccharin, aspartame
- rheology (viscosity) modifiers, e.g. hydrophilic polymers (cellulose derivatives, alginic acid, polyvinylpyrrolidone)
- antioxidants, e.g. sodium formaldehyde sulphonylate, butylated hydroxyanisole, butylated hydroxytoluene
- colours
- flavours
- buffers to regulate the pH of the formulation, e.g. citrate buffer.

The specific roles of each of these formulation excipients will be described later in this chapter.

KeyPoints

- Pharmaceutical solutions are extensively used as dosage forms for the oral administration of therapeutic agents.
- Pharmaceutical solutions are homogeneous, i.e. the therapeutic agent(s) and excipients are dissolved in the vehicle.
- Pharmaceutical solutions for oral administration are in non-sterile dosage forms.

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Pharmaceutical Practice Jennie Watson, Judith A Rees, Ian Smith, 2014-01-16 The fifth edition of Pharmaceutical Practice has been totally overhauled and restructured to bring the contents completely up to date and to reflect emerging new roles for pharmacists both within the traditional employment areas of hospital and community pharmacy as well as other developing roles supporting the public health agenda governance risk management prescribing and pharmacoconomics It covers a wide range of subjects relevant to pharmacy practice including communication skills managing a business quality assurance dispensing calculations packaging storage and labeling of medicines sterilization prescriptions hospital based services techniques and treatments adverse drug reactions cost benefit and medicines management Each chapter begins with Study Point and ends with Key Points to reinforce learning Appendices include medical abbreviations Latin terms and abbreviations systems of weights and measurements presentation skills and key references Self assessment questions for more complex areas of pharmaceutical practice New chapters on control of medicines control of health professionals and their staff ethics in practice Standard Operating Procedures structure and organisation of pharmacy veterinary pharmacy appliances public health and pharmacy interventions New editor on the team Jennie Watson Many new contributors comprising practising pharmacists teachers of pharmacy and pharmacists with joint appointments between hospital community pharmacy and universities

Pharmaceutics Philip Denton, Chris Rostron, 2013-07-25 Pharmaceutics the science of medicine design explores the different forms that medicines can take and demonstrates how being able to select the best form be it a tablet injectable liquid or an inhaled gas requires an understanding of how chemicals behave in different physical states

Aulton's Pharmaceutics Michael E. Aulton, Kevin Taylor, 2013 Pharmaceutics is the art of pharmaceutical preparations It encompasses design of drugs their manufacture and the elimination of micro organisms from the products This book encompasses all of these areas Provided by publisher

Handbook of Pharmacy Virgil Coblentz, 1895

Aulton's Pharmaceutics E-Book Kevin M.G. Taylor, Michael E. Aulton, 2021-04-23 The essential pharmaceutics textbook One of the world's best known texts on pharmaceutics Aulton's Pharmaceutics offers a complete course in one book for students in all years of undergraduate pharmacy and pharmaceutical sciences degrees Thoroughly revised updated and extended by experts in their fields and edited by Professors Kevin Taylor and Michael Aulton this new edition includes the science of formulation pharmaceutical manufacturing and drug delivery All aspects of pharmaceutics are covered in a clear and readily accessible way and extensively illustrated throughout providing an essential companion to the entire pharmaceutics curriculum from day one until the end of the course Fully updated throughout with the addition of new chapters to reflect advances in formulation and drug delivery science pharmaceutical manufacturing and medicines regulation Designed and written for newcomers to the design and manufacture of dosage forms Relevant pharmaceutical science covered throughout Includes the science of formulation and drug delivery Reflects current practices and future applications of formulation and drug

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Book jacket *Midland Druggist* ,1909 *Pharmaceutical Journal* ,1889 *Practical Pharmacy* Edward William Lucas,1898 **The Pharmaceutical Era** ,1926 *Digest of Criticisms on the United States Pharmacopœia, Seventh Decennial Revision, 1890* Committee of Revision and Publication of the Pharmacopœia of the United States of America (1890-1900),1901 Bulletin of Pharmacy ,1907 **Canadian Almanac and Directory 2021** Grey House Canada,2020-12

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