Record Nr. UNINA9910825789603321 Formulation and analytical development for low-dose oral drug **Titolo** products / / edited by Jack Zheng Pubbl/distr/stampa Hoboken, N.J., : John Wiley & Sons, c2009 **ISBN** 1-282-03105-8 9786612031052 0-470-38636-3 0-470-38635-5 Edizione [1st ed.] Descrizione fisica 1 online resource (492 p.) Altri autori (Persone) ZhengJack Disciplina 615/.1Soggetti Drugs - Dose-response relationship Drugs - Dosage Oral medication Drug development Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto An overview / Jack Y. Zheng -- Challenges and strategies in formulation development of oral solid low-dose drug products / Jack Y. Zheng -- Particle size of drug substance and product content uniformity: theoretical considerations / Kevin C. Johnson --Development of low-dose formulations using fluidized bed granulation / J. Joe Zhou, and Ralph Lipp -- Development of low-dose solid oral formulations using wet granulation / Ahmad Almaya -- Challenges in development and scale-up of low dose drug products by dry granulation: a case study / Mary T. Am Ende ... [et al.] -- Development of low-dose solid oral tablets using direct compression / Jack Y. Zheng and Robert L. Ternik -- Reduction of particle size of drug substance for low-dose drug products / Christopher L. Burcham ... [et al.] --Function, quality, and regulations of pharmaceutical excipients for oral solid dosage forms / Jack Y. Zheng --Analytical method development: challenges and solutions for low-dose

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Sommario/riassunto

There are unique challenges in the formulation, manufacture, analytical chemistry, and regulatory requirements of low-dose drugs. This book provides an overview of this specialized field and combines formulation, analytical, and regulatory aspects of low-dose development into a single reference book. It describes analytical methodologies like dissolution testing, solid state NMR, Raman microscopy, and LC-MS and presents manufacturing techniques such as granulation, compaction, and compression. Complete with case studies and a discussion of regulatory requirements, this is a core reference for