



Pharmaceutical Coating Technology Advances in Machinery

Pharmaceutical Coating Technology

**Michael Aulton, Graham Cole, John
Hogan**



Pharmaceutical Coating Technology:

Pharmaceutical Coating Technology Graham Cole, Michael E. Aulton, John E. Hogan, 2020-06-30 This book is the definitive work on the theory and practice of pharmaceutical tablet and pellet coating. It describes both the practical and theoretical aspects of tablet coating including the equipment and methods used in laboratory development, scale up and production systems. More as well as automation and validation. This book also discusses the problems of conforming to world wide regulations and the hazards of environmental pollution.

Pharmaceutical Coating Technology Michael Aulton, Graham Cole, John Hogan, 1995-10-27 This book is the definitive work on the theory and practice of pharmaceutical tablet and pellet coating. It describes both the practical and theoretical aspects of tablet coating including the equipment and methods used in laboratory development, scale up and production systems. More as well as automation and validation. This book also discusses

Pharmaceutical Coating Technology Charles A. Signorino, 1997-02-01 Systematische Untersuchungen zur Einstellung der Prozessparameter im Scale-up Prozess für die Bohle Film Coater Ronny Müller, 2007-01-24 Beim Scale up d. h. bei der Chargenvergrößerung eines Prozesses vom Labor in den Produktionsmaßstab müssen die Prozessparameter angepasst werden, um die gleiche Produktqualität im Produktionsmaßstab wie im Labormaßstab zu erzielen. Ausgangspunkt für die Umrechnung der Prozessparameter für den Produktionsmaßstab stellen immer die gegebenen Werte der Prozessparameter aus dem Labormaßstab dar. Diese müssen im Rahmen der Entwicklung für jedes einzelne Produkt festgelegt werden. Ziel der Arbeit war es, die einzelnen Teilprozesse des Filmcoatings Sprühen, Mischen und Trocknen im Labor und Produktionsmaßstab zu untersuchen. Dabei sollten die Gesetzmäßigkeiten zur Einstellung der Prozessparameter bestimmt werden, damit die Bedingungen der einzelnen Teilprozesse im Labor und Produktionsmaßstab konstant gehalten werden. Die zugrunde liegende Hypothese dabei war, dass bei der Beibehaltung der gleichen Sprüheigenschaften, Tablettendynamiken und Trocknungsbedingungen die gleichen Produkteigenschaften im Produktionsmaßstab erhalten werden wie im Labormaßstab. Zur Einstellung der Sprühprozessparameter beim Wechsel von der Labor auf die Produktionsdose sollte die gleiche Tropfengröße am Sprayrand und Tropfengeschwindigkeit im Sprayzentrum erreicht werden. Dazu kann mit Hilfe der vorgestellten statistischen Modelle der Zerstäubendruck so eingestellt werden, dass gleiche Tropfengrößen am Sprayrand erhalten werden. Zur Einstellung der Tropfengeschwindigkeit erwies sich der Abstand der Dose zum Tablettenbett als geeigneter Parameter. Die Einstellung des Formierdruckes muss anhand eines Spraytestes erfolgen. Die Anpassung der Sprührate sollte sich an den Spraybreiten orientieren, so dass bei gleicher Sprühhöhe die Tabletten beim Durchgang durch die Sprühzone den gleichen Massenauftrag erhalten. Die Drehzahl der Trommel sollte auf eine konstante Umfangsgeschwindigkeit berechnet werden. Die Tabletten liefen in den Bohle Film Coatern deutlich schneller durch die Sprühzone als die Umfangsgeschwindigkeit der Trommel war. Bei gleicher Umfangsgeschwindigkeit laufen die Tabletten in großen Coatern schneller durch die Sprühzone. Es konnte ein mathematischer Zusammenhang zwischen der Tablettengeschwindigkeit beim Durchgang durch die Sprühzone

der Umfangsgeschwindigkeit und der Trommelgröße gefunden werden. Dieser wurde dazu genutzt, um in Abhängigkeit von der Trommelgröße vorherzusagen, wie viel schneller die Tabletten durch die Sprühzone laufen, im Vergleich zum Labormaßstab. Dieser Wert kann zusammen mit der neu bestimmten Sprühhöhe der Produktionsdose dazu verwendet werden, die Sprührate so anzupassen, dass die Tabletten beim Durchgang durch die Sprühzone den gleichen Massenauftrag erhalten. Beim Vergleich der Belastungen der Tabletten im Labor und im Pilotmaßstab stellte sich heraus, dass Tabletten die sehr empfindliche Kanten haben, im Labormaßstab deutlich mehr Abrieb zeigten als in größeren Geräten. Grund dafür war die höhere Anzahl an Aufschlägen auf die Trommelwand im Labormaßstab. Vergleichsweise zum Pilotmaßstab: Untersuchungen von Tabletten unterschiedlicher Bruchkräfte ergaben bei niedrigen Drehzahlen keine Unterschiede in ihren Abriebwerten zwischen dem Labor und dem Produktionsgerät. Lediglich leicht erhöhte Abriebwerte bei höheren Drehzahlen fanden sich im Produktionsmaßstab. Zur Umrechnung der Zuluftmenge soll ein gleiches Sprühraten zu Volumenstromverhältnis verwendet werden. Die Ablufttemperatur im Produktionsmaßstab soll den gleichen Wert haben wie im Labormaßstab. Der individuelle Wärmeverlustfaktor für jeden Coater, welcher über ein vorgestelltes thermodynamisches Modell bestimmt werden kann, ist für die genaue Berechnung der Lufttemperaturen und Feuchten notwendig. Anhand der Abluftfeuchten im Labormaßstab kann die Zuluftfeuchte im Produktionsmaßstab durch Einstellung der Taupunkttemperatur so angepasst werden, dass die gleiche Abluftfeuchte wie im Labormaßstab erreicht wird. Somit können die Prozesse in beiden Maßstäben thermodynamisch gleich ausgerichtet werden. Die gewonnenen Erkenntnisse dienen besonders den Maschinenherstellern und den Anwendern in der pharmazeutischen Industrie. Somit kann der Prozess der Maßstabsübertragung genauer verstanden werden, und die Maschinen können gegebenenfalls bautechnisch so modifiziert werden, dass die Geräte in beiden Maßstäben gleiche oder bessere Ergebnisse liefern. Die vorgestellten Methoden zum Scale-up sollen zukünftig in der pharmazeutischen Industrie bei verschiedenen Produkten angewendet werden, um zum einen die Anzahl der Versuche im Produktionsmaßstab zu reduzieren und um zum anderen weiterführende Erkenntnisse zum Scale-up-Prozess zu gewinnen. Stichwörter: Scale-Up, Film Coating, Bohle Film Coater, Spray, Tablettengeschwindigkeit, Abtrieb, Labor, Produktion.

Advancing Applications of Polymer Coating Technology Prem Kumar Karmakar, 2024-07-03. Scientific Study from the year 2024 in the subject Engineering Mechanical Engineering course B.Tech Mechanical language English abstract. Research conducted over the past few decades has brought us closer to the development of functional polymer coatings that are easy to use, self-cleaning, antibacterial, and antifouling. The use of polymer coatings has little or no impact on other properties and they do not compromise the safety or mechanical strength of the materials being coated. Coatings are highly durable, resistant, and are primarily used for protection against environmental factors such as water corrosion and other elements. These coatings must meet stringent performance requirements to ensure maximum effectiveness. In this work, we try to bring forward the recent research and advancements that are taking place in the field of Polymer Coating Technology and have a better understanding of this technology getting

implemented in our day to day life Excipients and Delivery Systems for Pharmaceutical Formulations D. R. Karsa, R. A. Stephenson, British Association for Chemical Specialities, 1995 This book will provide a useful introduction for those relatively unfamiliar with this highly technical subject as it gives broad coverage of a very diverse area **Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems** Loyd V. Allen, Nicholas G. Popovich, Howard C. Ansel, 2011 Thanks to its comprehensive coverage clear explanations and logical organization Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems has been a core pharmaceuticals text in the pharmacy curriculum for more than 40 years As you progress through this thoroughly updated Ninth Edition you will master all the principles practices and technologies essential for the preparation of pharmaceutical dosage forms and drug delivery systems The text's integrated approach will help you understand the interrelationships among pharmaceutical and biopharmaceutical principles product design formulation manufacturing compounding and the clinical application of dosage forms for effective patient care Book Jacket *Polymers Coatings* Inamuddin, Rajender Boddula, Mohd Imran Ahamed, Abdullah M. Asiri, 2020-05-27 The explores the cutting edge technology of polymer coatings It discusses fundamentals fabrication strategies characterization techniques and allied applications in fields such as corrosion food pharmaceutical biomedical systems and electronics It also discusses a few new innovative self healing antimicrobial and superhydrophobic polymer coatings Current industrial applications and possible potential activities are also discussed AN INVESTIGATION INTO THE RELAXATION BEHAVIOR OF PHARMACEUTICAL FILM COATINGS. CHRISTOPHER MICHAEL SINKO, 1989 industry *Coated Pharmaceutical Dosage Forms* Kurt H. Bauer, 1998 *Technological Change and Its Impact on Labor in Four Industries* United States. Bureau of Labor Statistics, 1992 Reviews employment trends during the period from 1973 to 1990 and includes projections for the period from 1990 to 2005 Controlled Release Technologies Ruth Duncan, Len W. Seymour, 1989 **Nano Engineering and Materials Technologies III** Kazuo Umemura, 2019-03-04 7th International Conference on Nanostructures Nanomaterials and Nanoengineering 2018 ICNN 2018 and 3rd International Conference on Materials Technology and Applications ICMTA 2018 Automation of Pharmaceutical Operations David J. Fraade, 1983 Explores computer applications in the pharmaceutical research laboratory production plant Standard and Poor's Guide to Health Care, Pharmaceutical and Biotech Stocks Standard and Poor's Corporation, 2003 Standard and Poor's has been the leading brand in financial information and analysis around the world Brokers investment bankers and other Wall Street professionals have relied upon S Technology Health Care Pharmaceutical and Biotechnology Energy Communications and Telecom The industries in these sectors include some of the fastest growing stocks around and each of them include stocks assigned the prestigious 5 Star rating by S P's top analysts 65 percent of the 5 Star rankings allotted to stocks in S P's 1500 composite index were assigned to stocks in one these 5 sectors Included in each book are S P's exclusive stock reports for the top rated companies in each industry in the sector Each book will also contain S P analysts valuable analysis of the sector as a whole and exclusive advice

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