

Title
A.M. Kaushal, E Dempah, H-S G Huang, J Qiu, E J Munson, L E Kirsch, R Suryanarayanan. Phase transformations in gabapentin during wet granulation and drying
A.M. Kaushal, E. Dempah, H-S.G. Huang, J. Qiu, E.J. Munson, L.E. Kirsch, R. Suryanarayanan, Phase transformations in gabapentin during wet granulation and drying, AAPS Journal
A.M. Kaushal, Z Zong, SD Desai, HS Huang, DH Barich, LE Kirsch, EJ Munson and R Suryanarayanan. Anhydrous and monohydrate gabapentin inter-conversion: Potential implications during solid dosage form manufacture
A.M. Kaushal, Z. Zong, S.D. Desai, H-S. Huang, D.H. Barich, L.E. Kirsch, E.J. Munson, R. Suryanarayanan, Anhydrous and monohydrate gabapentin inter-conversion: Potential implications during solid dosage form manufacture, AAPS Journal
B. Igne, Z Shi, CA Anderson, JK Drennen III, On-Line Blend Monitoring of Pharmaceutical Materials Using Multiple NIR Sensors
Pharmaceutical Blend Monitoring
B. Zacour, Igne B., Drennen J.K., Anderson C.A., 2011. Efficient Near Infrared Spectroscopic Calibration Methods for Pharmaceutical Blend Monitoring, Journal of Pharmaceutical Innovation
B. Zacour, James K. Drennen III, Carl A. Anderson, Hybrid Controls Combining First Principle Calculations with Empirical Modeling for Fully Automated Fluid Bed Processing, submitted to Journal of Pharmaceutical Innovation
B. Zacour, James K. Drennen III, Carl A. Anderson, Hybrid Controls for a Fluid Bed Drying Unit Operation to Facilitate Full System Automation and the Efficient Development of a Design Space
D. Kayrak-Talay, J. D. Litster, A priori Performance Prediction in Pharmaceutical Wet Granulation: Validating the Wet Granulation Nucleation Regime Map for a Formulation with a Broad Size Distribution and Dry Binder Addition, submitted to International Journal of Pharmaceutics
D. Kayrak-Talay, J.D. Litster, Scaling Rules for High Shear Granulation: A Case Study for Pharmaceutical Granulation
D. Kayrak-Talay, James D. Litster, Implementing a Regime Map Approach to Wet Granulation Design for a Pharmaceutical Case Study
D. Kayrak-Talay, James D. Litster, James K. Drennen, Model Based Approach to Determine Optimum Operating Conditions in High Shear Granulation
D. Kayrak-Talay, JD Litster, JK Drennen III, Model Based Approach to Determine Optimum Operating Conditions in High Shear Granulation
D.H. Barich, E.J. Munson, A.M. Kaushal, R. Suryanarayanan, Z. Zong, S. Desai, H-S. Huang, L.E. Kirsch, Characterization of Gabapentin Forms and Stability using Solid-State NMR Spectroscopy, AAPS Journal
F. Muzzio, Analysis of Electrical Properties of a Powder Blend and Their Effect on Flow Behavior- a QbD Approach
G.V. Reklaitis, H Arastoopour, R Bogner, JK Drennen III, LK Kirsch, J Litster, EJ Munson, F Muzzio, R Suryanarayanan, SW Hoag, MA Khan, NIPTE-FDA Collaborative Case Study on Model-Based Design Space Development Across Scales and with Stability Considerations
I.S. Buckner, N Dalal, PL Wildfong, R. Tinmanee, Z Zong, H-S Huang, LE Kirsch, Excipient Effects on the Solid-state Stability of Processed Gabapentin
J. Jang, C. Rosa, and H. Arastoopour, CFD Simulation of Pharmaceutical Particle Drying in a Bubbling Fluidized Bed Reactor
J. Jang, Cezar Roza, and Hamid Arastoopour, Numerical Simulation for a Particle Mixing and Drying in a Bubbling Fluidized
K.E. Dempah, A Kaushal, H-S G Huang, R Suryanarayanan, LE Kirsch, EJ Munson, Predicting Gabapentin Stability upon Processing using SSNMR
K.E. Dempah, A. Kaushal, H-S. G. Huang, R. Suryanarayanan, L. E. Kirsch, E. J. Munson, Predicting Gabapentin Stability upon Processing using SSNMR, AAPS Journal
L. Kirsch, A Case Study on Linking Solid-state Stability to Manufacturing Design in the FDA's Quality-by-Design Pharmaceutical Development Paradigm
L. Kirsch, The Development of Methods to Link Design Space Models to Product Stability
L. Mockus, Basu P., Nail S., Pikal M., Harper N., Khan M., Quality by Design for a "Small Molecule" Freeze Dried Parenteral: Formulation and Process Design
L. Mockus, D. LeBlond, G. Reklaitis, P. Basu, T. Paul, N. Pease, S. Nail, and M. Khan, Design Space Definition: A Case Study –
L. Mockus, D. LeBlond, P. Basu, R. Shah, M. Khan, A QbD Case Study Bayesian Prediction of Lyophilization Cycle, AAPS
L. Mockus, Michael Pikal, Nancy Harper, Prabir K. Basu, Steven Nail, Nathan Pease, Mansoor A. Khan, Tim Paul, Application of Quality by Design Principles to Development of Freeze-Dried Parenteral Dosage Forms
L. Mockus, Prabir K. Basu, Nancy J. Harper, Steven L. Nail, Nathan Pease, Tim Paul, Michael J. Pikal, David LeBlond, Mansoor A. Khan, Agnes A Nguyenpho, QbD approach to developing a parenteral formulation for a small molecule

L. Mockus, Timothy W. Paul, Nathan Pease, Nancy J. Harper, Prabir K. Basu, Elizabeth A. Oslos, Gregory A. Sacha, Wei Y. Kuu, Lisa M. Hardwick, Jaquelyn Karty, Michael J. Pikal, Eun Hee Lee, Mansoor A. Khan, Agnes Nguyenphu, and Steven L. Nail, Quality by Design in Formulation and Process Development for a Freeze-Dried, Small Molecule Parenteral Product: A Case Study. submitted to <i>Pharmaceutical Development and Technology</i>
N. Martinez-Orengo, Evone S. Ghaly, Stephen Byrn. Effect of Different Excipient on the Quality of Anti Fungal Drug
N. Martinez-Orengo, Evone S. Ghaly, Stephen Byrn. Stability Study for Dispersions Prepared with Different Polymers for Solubility Enhancement of Anti-Fungal Drug
N. Orengo-Martinez, Evone S. Ghaly, Stephen Byrn. Effect of Methods of Formulation Composition, Methods of Preparation and Particle Size of Solid Dispersions on the Physico-Chemical Properties and Quality of Output Product
N. Orengo-Martinez, Evone S. Ghaly. Developing of a Dissolution Method for Dispersions Containing Antifungal Drug
P. Basu, Linas Mockus, Nancy Harper, Nate Pease, Tim Paul, Steve Nail, Michael Pikal, Mansoor Khan, Abhay Gupta, Quality by Design in Formulation and Process Development for a Freeze-Dried Parenteral: A Case Study
R. Bondi, Jr., Brian M. Zacour, James K. Drennen III, Carl A. Anderson, Hybrid Controls for the Fluid-Bed Drying Unit Operation to Facilitate Full System Automation and the Efficient Development of a Design Space
R. H. Bogner, and Michael J. Pikal, The Incredible Shrinking Design Space: Using Risk Tolerance to Define Design Space for Primary Drying
R. Roopwani , Peter L.D. Wildfong, Brian Zacour, James K. Drennen III, Carl Anderson, Defne Kayrak-Talay, James Litster, and Ira S. Buckner, Compression Speed Effects on Compactibility Profiles of Gabapentin Granules
T. Wang, C. Wassgren, K. Alston, T. Li, P. Basu, L. Mockus and S. Hoag, Key issues in understanding and predicting excipient properties and functionality
Z. Zong, L Kirsch, A Kaushal, R Suryanarayanan, E Dempah, E Munson. A Kinetic Model for the Solid State Degradation of Gabapentin
Z. Zong, S. D. Desai, A. M. Kaushal, D. H. Barich, H-S. Huang, E. J. Munson, R. Suryanarayanan, L. E. Kirsch, The Stabilizing Effect of Moisture on the Solid-State Degradation of Gabapentin, submitted to AAPS PharmSciTech
Z. Zong, S.D. Desai, A.M. Kaushal, D.H. Barich, H-S. Huang, E.J. Munson, R. Suryanarayanan, L.E. Kirsch, The Stabilizing Effect of Moisture on the Solid-State Degradation of Gabapentin, AAPS Journal
Z. Zong, SD Desai, AM Kaushal, DH Barich, H-S Huang, EJ Munson, R Suryanarayanan, LE Kirsch. The Stabilizing Effect of Moisture on the Solid-State Degradation of Gabapentin